

State of California
The Resources Agency
DEPARTMENT OF FISH AND GAME
Wildlife and Habitat Data Analysis Branch
California Natural Diversity Data Base

SPECIAL ANIMALS

July 2000

The California Natural Diversity Data Base (CNDDB) is a continually refined and updated, computerized inventory of location information on the more rare animals, plants, and natural communities in California. The blueprint used to set up the CNDDB was developed by The Nature Conservancy (TNC) in the early 1970's. TNC has helped to set up similar programs in all 50 states and a number of foreign countries. Collectively these programs are known as the Natural Heritage Network. The "Heritage Methodology" used by all of these programs, sets the standards on the information we gather and the procedures we use. More information on the Natural Heritage Network is available on their Web site: http://www.heritage.tnc.org/nhp/overview_nhp.html.

"Special Animals" is a general term that refers to all of the taxa the CNDDB is interested in tracking, regardless of their legal or protection status. These taxa generally fall into one or more of the following categories:

- Officially listed or proposed for listing under the State and/or Federal Endangered Species Acts
- State or Federal candidate for possible listing
- Taxa which meet the criteria for listing, even if not currently included on any list, as described in Section 15380 of the CEQA Guidelines (more information on CEQA is available on the internet at: http://ceres.ca.gov/topic/env_law/ceqa/guidelines/)
- Taxa considered by the Department to be a Species of Special Concern
- Taxa that are biologically rare, very restricted in distribution, declining throughout their range, or have a critical, vulnerable stage in their life cycle that warrants monitoring
- Populations in California that may be on the periphery of a taxon's range, but are threatened with extirpation in California
- Taxa closely associated with a habitat that is declining in California at an alarming rate (e.g., wetlands, riparian, old growth forests, desert aquatic systems, native grasslands, vernal pools, etc.)
- Taxa designated as a special status, sensitive, or declining species by other state or federal agencies, or non-governmental organization (NGO)

For most animal taxa, the CNDDB is interested in sightings that indicate the presence of a **resident population**. For many birds, however, the CNDDB tracks only nesting locations, (those species are so indicated on the list). It is not necessary to actually locate the nest to confirm breeding status. Any indication of breeding (territorial males, adults carrying nest material, adults carrying food, the presence of newly fledged young, etc.) is acceptable evidence of nesting. For other taxa where we track only a certain part of their range or life history, the area or life stage is indicated on the list.

Taxa marked with a "+" to the left of the scientific name are those for which there is location information in the CNDDB Geographic Information System (GIS), as of the date of this list.

CNDDB RANKS:

The CNDDB ranking codes are part of the "Heritage Methodology". It is a shorthand formula that provides information on how rare a taxa is, both throughout its entire range and within California. We use the best information available to assign these ranks and they are changed as new information becomes available. More detailed information on our ranks can be found in Appendix 1.

CALIFORNIA ENDANGERED SPECIES ACT (CESA) LISTING CODES: The listing status of each species is current as of the date of this list. The most current changes in listing status will be found in the list of “Endangered and Threatened Animals of California”, which the CNDDDB updates and prints quarterly (January, April, July, & October).

SE State-listed as Endangered

ST State-listed as Threatened

SCE State candidate for listing as Endangered

SCT State candidate for listing as Threatened

ENDANGERED SPECIES ACT (ESA) LISTING CODES: The listing status is current as of the date of this list.

The most current changes in listing status will be found in the list of “Endangered and Threatened Animals of California”, which the CNDDDB updates and prints quarterly (January, April, July, & October).

FE Federally listed as Endangered

FT Federally listed as Threatened

FPE Federally proposed for listing as Endangered

FPT Federally proposed for listing as Threatened

FPD Federally proposed for delisting

FC Federal candidate species (former Category 1 candidates)

(FSC) Federal Special Concern species (a “term-of-art” for former Category 2 candidates). More information is available in Appendix 2.

IUCN CODES:

The World Conservation Union (formerly the International Union for the Conservation of Nature) was created in 1949. It is the world’s largest conservation-related organization with over 900 governmental and non-governmental members from 181 countries. The IUCN is a storehouse of information and expertise, and as such, it advises and assists governments, organizations and local communities in developing and implementing conservation strategies. The Species Survival Commission, one of six global commissions within IUCN, has been publishing the “Red List of Threatened Species” for over 30 years. The Red List contains a roster of species that have been assessed against strict criteria. Detailed information on the IUCN codes can be found in Appendix 3. Additional information is available on their Web site at: <http://www.iucn.org/themes/ssc/redlists/ssc-rl-c.htm>.

OTHER CODES:

Audubon: Cal WL: The Audubon Society’s state WatchList for California. The state WatchLists were developed using the Partners in Flight (PIF) data and prioritization process. The state lists are an additional tool designed to help conserve local bird populations. More information is available on their Web site at: <http://www.audubon.org/bird/watch/state2/ca.html>.

BLM: Sensitive: Bureau of Land Management. BLM Manual §6840 defines sensitive species as “...those species that are (1) under status review by the FWS/NMFS; or (2) whose numbers are declining so rapidly that Federal listing may become necessary; or (3) with typically small and widely dispersed populations; or (4) those inhabiting ecological refugia or other specialized or unique habitats.” Existing California-BLM policy concerning the designation of sensitive species identifies two conditions that must be met before a species may be considered as BLM sensitive: (1) a significant population of the species must occur on BLM-administered lands, and (2) the potential must exist for improvement of the species’ condition through BLM management.

CDF: Sensitive: California Department of Forestry and Fire Protection. The Board of Forestry classifies as “sensitive species” those species that warrant special protection during timber operations. The list of “sensitive species” is given in §895.1 (Definitions) of the California Forest Practice Rules. The Forest Practice Rules are

available on CDF's Web site at: <http://www.fire.ca.gov/pdf/2000RULEi197.pdf>

DFG: CSC: California Special Concern species. It is the goal and responsibility of the Department of Fish and Game to maintain viable populations of all native species. To this end, the Department has designated certain vertebrate species as "Species of Special Concern" because declining population levels, limited ranges, and/or continuing threats have made them vulnerable to extinction. The goal of designating species as "Species of Special Concern" is to halt or reverse their decline by calling attention to their plight and addressing the issues of concern early enough to secure their long term viability. Not all "Species of Special Concern" have declined equally; some species may be just starting to decline, while others may have already reached the point where they meet the criteria for listing as a "Threatened" or "Endangered" species under the State and/or Federal Endangered Species Acts. More information on the Department's species of special concern reports can be found in Appendix 4.

DFG: Fully protected and Protected: Fully protected and Protected species may not be taken or possessed without a permit from the Fish and Game Commission and/or the Department of Fish and Game. Information on Fully protected species can be found in the Fish and Game Code, (birds at §3511, mammals at §4700, reptiles and amphibians at §5050, and fish at §5515). Information on Fully Protected fish can be found in the California Code of Regulations, Title 14, Division 1, Chapter 2, Article 4, §5.93. Information on Protected native amphibians can be found in Chapter 5, §41 and Protected native reptiles at §42. The Fish and Game Code is available on the internet at: <http://www.leginfo.ca.gov/calaw.html>. Title 14 is available on the internet at: <http://www.dfg.ca.gov/title/contents.html>.

FS: Sensitive: The Forest Service participates in recovery programs with the California Department of Fish and Game and the U.S. Fish and Wildlife Service to restore declining populations and protect habitats. A Forest Service "Sensitive Species" program identifies and manages species whose populations are declining. More information is available on their Web site at:

http://www.r5.fs.fed.us/forestmanagement/html/endangered_species.html

FWS: MNBMC: Fish and Wildlife Service: Migratory Nongame Birds of Management Concern: Species of migratory nongame birds that are considered to be of concern in the United States because of (1) documented or apparent population declines, (2) small or restricted populations, or (3) dependence on restricted or vulnerable habitats. More information is available on their Web site at:

<http://migratorybirds.fws.gov/reports/speccon/tblconts.html>

PIF: WatchList: The WatchList is compiled by Partners in Flight, a coalition of state, federal, and private sector organizations working together to protect the birds of the western hemisphere. The WatchList identifies North American bird species in need of help. WatchList species are those faced with population decline, limited geographic range, and/or threats such as habitat loss on their breeding and wintering grounds. The WatchList is an early warning system that focuses attention on at-risk bird species before they become endangered. Saving species pushed to the edge of extinction is difficult, costly and politically charged. The WatchList shifts the agenda from reactive, last-minute rescue attempts to preventive action. More information on the WatchList and the PIF prioritization process can be found on their Web site at: <http://www.audubon.org/bird/watch/index.html>.

WBWG: High Priority: The Western Bat Working Group is comprised of agencies, organizations and individuals interested in bat research, management and conservation from the 13 western states and provinces. The goals are (1) to facilitate communication among interested parties and reduce risks of species decline or extinction; (2) to provide a mechanism by which current information on bat ecology, distribution and research techniques can be readily accessed; and (3) to develop a forum to discuss conservation strategies, provide technical assistance and encourage education programs. Species designated as "High Priority" are imperiled or are at high risk of imperilment based on available information on distribution, status, ecology and known threats.

OTHER DATABASES

In addition to the CNDDB, the Department of Fish and Game maintains other databases which may be of interest to CNDDB users. Some of these databases are listed in Appendix 5.

INVERTEBRATES

	<u>CNDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
PELECYPODA (clams and mussels)					
<i>Anodonta californiensis</i> California floater (mussel)	G3S2?		(FSC)		FS: Sensitive
<i>Pisidium ultramontanum</i> Fingernail clam	G1S1		(FSC)		FS: Sensitive
GASTROPODA (snails and slugs)					
<i>Haliotis cracherodii</i> Black abalone	G?S?		FC		
<i>Haliotis sorenseni</i> White abalone	G1S1		FPE		
<i>Algamorda newcombiiana</i> Newcomb's littorine snail	G1G2S1S2		(FSC)		
+ <i>Ammonitella Yatesi</i> Tight coin (=Yates' snail)	G1S1		(FSC)	VU/D2	
+ <i>Assiminea infima</i> Badwater snail	G1S1		(FSC)	VU/B1+2c	
+ <i>Binneya notabilis</i> Santa Barbara shelled slug (=slug snail)	G1S1		(FSC)	DD	
<i>Discus shemeki cockerelli</i> Cockerell's striate disc (snail)	G?T?S?		(FSC)		
+ <i>Eremarionta (=Micrarionta) immaculata</i> White desertsnail	G1S1		(FSC)	VU/D2	
<i>Eremarionta (=Micrarionta) millepalmarum</i> Thousand Palms desertsnail	G?S?		(FSC)	VU/D2	
+ <i>Eremarionta (=Micrarionta) morongoana</i> Morongo (=Colorado) desertsnail	G1G3S1		(FSC)	LRnt	
+ <i>Eremarionta (=Micrarionta) rowelli bakerensis</i> Baker desertsnail	G1T1S1		(FSC)	DD	
+ <i>Eremarionta (=Micrarionta) rowelli mccoyana</i> California McCoy snail (=McCoy dessertsnail)	G1T1S1		(FSC)	DD	
+ <i>Fontelicella</i> sp. Deep Springs Fontelicella	G1S1				
+ <i>Haplotrema catalinense</i> Santa Catalina lancetooth	G1S1				
+ <i>Haplotrema duranti</i> Durant's snail	G2G3S2S3				
<i>Helisoma newberryi</i> Great Basin rams-horn	G1?S1				FS: Sensitive
+ <i>Helminthoglypta allynsmithi</i> Merced Canyon shoulderband (snail)	G1S1		(FSC)	VU/D2	
+ <i>Helminthoglypta arrosa pomoensis</i> Pomo bronze shoulderband (snail)	G2T1S1		(FSC)	DD	
+ <i>Helminthoglypta arrosa williamsi</i> Williams' bronze shoulderband (snail)	G2T1S1		(FSC)		

	<u>CNDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Helminthoglypta ayresiana sanctaerucis</i> Ayer's snail	G1G2S1S2				
+ <i>Helminthoglypta callistoderma</i> Kern shoulderband (snail)	G1S1	(FSC)		EN/B1+2c	
<i>Helminthoglypta coelata</i> Mesa shoulderband	G?S?			VU/B1+2c	
+ <i>Helminthoglypta mohaveana</i> Victorville shoulderband (snail)	G1S1	(FSC)		LRnt	
+ <i>Helminthoglypta nickliniana awania</i> Peninsula Coast Range shoulderband (snail) (=Nicklin'S peninsula snail)	G1T1S1	(FSC)		DD	
+ <i>Helminthoglypta nickliniana bridgesi</i> Bridges' Coast Range shoulderband (snail)	G2T1S1	(FSC)		DD	
+ <i>Helminthoglypta sequoicola consors</i> Redwood shoulderband (snail)	G1G2T1S1	(FSC)		DD	
+ <i>Helminthoglypta traski coelata</i> Peninsular Range shoulderband (snail)	G1G2T1S1	(FSC)			
+ <i>Helminthoglypta walkeriana</i> Morro shoulderband (snail)	G1S1	FE		CR/A1ce, B1+2bc	
<i>Juga acutiflora</i> Topaz juga	G2S2			FS: Sensitive	
<i>Juga occata</i> Scalloped juga	G1S1			FS: Sensitive	
+ <i>Micrarionta facta</i> Santa Barbara islandsnail	G1G2S1S2	(FSC)		VU/D2	
+ <i>Micrarionta feralis</i> San Nicolas islandsnail	G1S1	(FSC)		CR/B1+2d	
+ <i>Micrarionta gabbi</i> San Clemente islandsnail	G1S1	(FSC)		DD	
+ <i>Micrarionta opuntia</i> Pricklypear islandsnail	G1S1	(FSC)		VU/D2	
+ <i>Monadenia circumcarinata</i> Keeled sideband (snail)	G1S1	(FSC)		VU/D2	BLM: Sensitive
+ <i>Monadenia fidelis pronotis</i> Rocky coast Pacific sideband (snail) (=Rocky coast sideband)	G1S1	(FSC)		DD	
+ <i>Monadenia yosemitensis</i> Yosemite mariposa sideband (snail)	G1S1	(FSC)			
+ <i>Monadenia mormonum buttoni</i> Button's Sierra sideband (snail)	G1G2T1S1	(FSC)		DD	
+ <i>Monadenia mormonum hirsuta</i> Hirsute Sierra sideband (snail)	G1G2T1S1	(FSC)		DD	BLM: Sensitive
+ <i>Monadenia setosa</i> Trinity bristle snail	G2S2	ST	(FSC)	VU/D2	
+ <i>Monadenia troglodytes</i> Shasta sideband (snail)	G2S2	(FSC)		DD	
+ <i>Monadenia tuolumneana</i> Tuolumne sideband (snail)	G1S1				
+ <i>Pristiloma shepardae</i> Shepard's snail	G1S1				

	<u>CNDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Pyrgulopsis aardahli</i> Benton Valley (=Aahrdahl's) springsnail	G1S1		(FSC)		
+ <i>Pyrgulopsis owensensis</i> Owens Valley springsnail	G1G2S1S2		(FSC)		FS: Sensitive
+ <i>Pyrgulopsis perturbata</i> Fish Slough springsnail	G1G2S1S2		(FSC)		
+ <i>Pyrgulopsis wongi</i> Wong's springsnail	G1G2S1S2		(FSC)		FS: Sensitive
+ <i>Radiocentrum</i> (= <i>Oreohelix</i>) <i>avalonense</i> Catalina mountainsnail	G1S1		(FSC)	CR/B1+2c	
+ <i>Sterkia clementina</i> San Clemente Island blunt-top snail	G1S1			LRnt	
+ <i>Tryonia imitator</i> Mimic Tryonia (=California brackishwater snail)	G2G3S2S3		(FSC)	DD	
<i>Tryonia margae</i> Grapevine Springs elongate tryonia	G?S?		(FSC)		
<i>Tryonia robusta</i> Robust tryonia	G?S?		(FSC)		
<i>Tryonia rowlandsi</i> Grapevine Springs squat tryonia	G?S?		(FSC)		
+ <i>Vespericola karokorum</i> Karok hesperian (=Karok Indian snail)	G2G3S2S3		(FSC)	DD	
+ <i>Xerarionta intercisa</i> Horseshoe snail (=Plain cactussnail)	G1S1			VU/D2	
+ <i>Xerarionta redimita</i> Wreathed cactussnail	G1S1			VU/D2	
<i>Xerarionta tryoni</i> Bicolor cactussnail	G1S1			VU/D2	

ARACHNIDA (spiders and relatives)

<i>Aphrastochthonius grubbsi</i> Grubbs' Cave pseudoscorpion	G1G2S?		(FSC)	
<i>Aphrastochthonius similis</i> Carlow's Cave pseudoscorpion	G?S?		(FSC)	
<i>Archeolarca aalbui</i> Aalbu's Cave pseudoscorpion	G1G2S?		(FSC)	
+ <i>Banksula melones</i> Melones Cave harvestman	G2S2			VU/A2c
+ <i>Calicina</i> (= <i>Sitalcina</i>) <i>minor</i> Edgewood blind harvestman	G1S1		(FSC)	
+ <i>Fissilicreagris</i> (= <i>Microcreagris</i>) <i>imperialis</i> Empire Cave pseudoscorpion	G1S1		(FSC)	VU/D2
<i>Larca laceyi</i> Lacey's Cave pseudoscorpion	G1G2S?		(FSC)	
+ <i>Meta dolloff</i> Dolloff Cave spider	G1S1		(FSC)	VU/D2
<i>Microcina edgewoodensis</i> Edgewood Park micro-blind harvestman	G?S?		(FSC)	
<i>Microcina homi</i>	G?S?		(FSC)	

	<u>CNDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
Hom's micro-blind harvestman					
<i>Microcina jungi</i>	G?S?		(FSC)		
Jung's micro-blind harvestman					
<i>Microcina leei</i>	G?S?		(FSC)		
Lee's micro-blind harvestman					
<i>Microcina lumi</i>	G?S?		(FSC)		
Fairmont (=Lum's) micro-blind harvestman					
+ <i>Microcina tiburona</i>	G1S1		(FSC)		
Tiburon micro-blind harvestman					
<i>Pauroctonus maritimus</i>	G?S?		(FSC)		
Monterey Dunes scorpion					
<i>Pseudogarypus orpheus</i>	G1G2S?		(FSC)		
Music Hall Cave pseudoscorpion					
<i>Telema</i> sp.	G1S1		(FSC)		
Santa Cruz telemid spider					
+ <i>Trityreus shoshonensis</i>	G1S1				BLM: Sensitive
Shoshone Cave whip-scorpion					

CRUSTACEA, Order Anostraca (fairy shrimp)

+ <i>Artemia monica</i>	G1S1		LRcd
Mono brine shrimp			
+ <i>Branchinecta conservatio</i>	G1S1	FE	EN/A2c
Conservancy fairy shrimp			
+ <i>Branchinecta longiantenna</i>	G1S1	FE	EN/A2c
Longhorn fairy shrimp			
+ <i>Branchinecta lynchi</i>	G2G3S2S3	FT	VU/A2c
Vernal pool fairy shrimp			
+ <i>Branchinecta sandiegonensis</i>	G1S1	FE	EN/A2c
San Diego fairy shrimp			
+ <i>Lepidurus packardi</i>	G2G3S2S3	FE	EN/A2c
Vernal pool tadpole shrimp			
+ <i>Linderiella occidentalis</i>	G2G3S2S3		LRnt
California linderiella			
+ <i>Streptocephalus woottoni</i>	G1S1	FE	EN/A2c
Riverside fairy shrimp			

CRUSTACEA, Order Isopoda (isopods)

+ <i>Caecidotea tomalensis</i>	G2S2	(FSC)
Tomales isopod		

CRUSTACEA, Order Amphipoda (amphipods)

+ <i>Stygobromus gradyi</i>	G1S1	(FSC)	VU/D2
Grady's Cave amphipod			
+ <i>Stygobromus harai</i>	G1S1	(FSC)	VU/D2
Hara's Cave amphipod			

	<u>CNDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Stygobromus mackenziei</i> MacKenzie's Cave amphipod	G1S1		(FSC)	VU/D2	
+ <i>Stygobromus wengerorum</i> Wengerors' Cave amphipod	G1S1		(FSC)	VU/D2	
CRUSTACEA, Order Decapoda (crayfish and shrimp)					
+ <i>Pacifastacus fortis</i> Shasta crayfish	G1S1	SE	FE	CR/B1+2c	
+ <i>Syncaris pacifica</i> California freshwater shrimp	G1S1	SE	FE	EN/A1ce	
INSECTA, Order Plecoptera (stoneflies)					
+ <i>Capnia lacustra</i> Lake Tahoe benthic stonefly	G1S1		(FSC)		
<i>Megaleuctra sierra</i> Shirttail Creek stonefly	G?S?		(FSC)		
INSECTA, Order Orthoptera (grasshoppers, katydids, and crickets)					
+ <i>Ammopelmatus kelsoensis</i> Kelso Jerusalem cricket	G1G3S1S2		(FSC)	VU/B1+2bd	
<i>Ammopelmatus muwu</i> Point Conception Jerusalem cricket	G1G3S1S3		(FSC)	VU/B1+2bd	
<i>Idiostatus kathleenae</i> Pinnacles shieldback katydid	G1G3S1S3		(FSC)		
+ <i>Idiostatus middlekaufi</i> Middlekauf's shieldback katydid	G1G2S1		(FSC)	CR/B1+2bd	
+ <i>Macrobaenetes kelsoensis</i> Kelso giant sand treader cricket	G1S1		(FSC)	VU/B1+2bd	
+ <i>Macrobaenetes valgum</i> Coachella giant sand treader cricket	G1G2S1S2		(FSC)	VU/B1+2bd	
+ <i>Neduba longipennis</i> Santa Monica shieldback katydid	G1G2S1S2		(FSC)	CR/B1+2bd	
<i>Pristoceuthophilus</i> sp. Samwell Cave cricket	G1G3S1S3		(FSC)	VU/D1+2	
+ <i>Psychomastix deserticola</i> Desert monkey grasshopper	G1G3S1S2		(FSC)	VU/B1+2bd	
+ <i>Stenopelmatus cahuiensis</i> Coachella Valley Jerusalem cricket	G1G2S1S2		(FSC)	VU/B1+2bd	
+ <i>Tettix sierrana</i> Sierra pygmy grasshopper	G1G2S1S2		(FSC)	VU/D2	
+ <i>Trimerotropis infantilis</i> Zayante band-winged grasshopper	G1S1	FE		EN/A1c	
INSECTA, Order Hemiptera (true bugs)					
<i>Ambrysus funebris</i> (No common name)	G?S?		(FSC)		

	<u>CNDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Belostoma saratoga</i> Saratoga Springs belostoman bug	G1S1		(FSC)		
+ <i>Oravelia pege</i> Dry Creek cliff strider bug	G1S1		(FSC)		
+ <i>Pelocoris shoshone</i> Amargosa naucorid bug	G1G3S1S2		(FSC)		
+ <i>Saldula usingeri</i> Wilbur Springs shorebug	G1S1				

INSECTA, Order Neuroptera (lacewings)

<i>Nothochrysa californica</i> San Francisco lacewing	G?S?	(FSC)		
+ <i>Oliarces clara</i> Cheeseweed moth lacewing	G1G3S1S3	(FSC)		

INSECTA, Order Coleoptera (beetles)

+ <i>Aegialia concinna</i> Ciervo aegialian scarab beetle	G1S1		VU/D2	BLM: Sensitive
+ <i>Agabus rumppi</i> Death Valley agabus diving beetle	G1G3S1	(FSC)		
+ <i>Anomala carlsoni</i> Carlson's dune beetle	G2S2			
+ <i>Anomala hardyorum</i> Hardy's dune beetle	G2S2			
+ <i>Anthicus sacramento</i> Sacramento anthicid beetle	G1S1	(FSC)	EN/B1+2c	
<i>Atractelmis wawona</i> Wawona riffle beetle	G1G3S1S3	(FSC)		
+ <i>Chaetarthria leechi</i> Leech's chaetarthrian water scavenger beetle	G1?S1?	(FSC)		
<i>Cicindela hirticollis abrupta</i> Sacramento Valley tiger beetle	G?S?	(FSC)		
+ <i>Cicindela hirticollis gravida</i> Sandy beach tiger beetle	G5T4S1	(FSC)		
<i>Cicindela ohlone</i> Ohlone tiger beetle	G1S1	FPE		
<i>Cicindela tranquebarica viridissima</i> Greenest tiger beetle	G5T2QS1	(FSC)		
+ <i>Coelus globosus</i> Globose dune beetle	G1S1	(FSC)	VU/A1c	
+ <i>Coelus gracilis</i> San Joaquin dune beetle	G1S1	(FSC)	VU/A1c,D2	BLM:Sensitive
<i>Coelus pacificus</i> Channel Islands dune beetle	G?S?	(FSC)		
<i>Coenonycha clementia</i> San Clemente Island coenonycha beetle	G1?S1?	(FSC)		
+ <i>Desmocerus californicus dimorphus</i>	G3T2S2	FT		

	<u>CNDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
Valley elderberry longhorn beetle <i>Dubiraphia brunnescens</i>	G1G3S1S3		(FSC)		
Brownish dubiraphian riffle beetle					
<i>Dubiraphia giulianii</i> Giuliani's dubiraphian riffle beetle	G1G3S1S3		(FSC)		
+ <i>Elaphrus viridis</i> Delta green ground beetle	G1S1		FT	CR/B1+2abc+3a	
<i>Glaresis arenata</i> Kelso Dune glaresis scarab beetle	G1G3S1S3		(FSC)		
+ <i>Hydrochara rickseckeri</i> Ricksecker's water scavenger beetle	G1G2S1S2		(FSC)		
<i>Hydroporus hirsutus</i> Woolly hydroporus diving beetle	G1G3S1S3		(FSC)		
<i>Hydroporus leechi</i> Leech's skyline diving beetle	G1?S1?		(FSC)		
+ <i>Hydroporus simplex</i> Simple hydroporus diving beetle	G1?S1?		(FSC)		
+ <i>Hygrotus curvipes</i> Curved-foot hygrotus diving beetle	G1S1		(FSC)		
+ <i>Hygrotus fontinalis</i> Travertine band-thigh diving beetle	G1S1		(FSC)		
+ <i>Lichnanthe albipilosa</i> White sand bear scarab beetle	G1S1		(FSC)		
+ <i>Lichnanthe ursina</i> Bumblebee scarab beetle	G2S2		(FSC)		
+ <i>Lytta hoppingi</i> Hopping's blister beetle	G1G2S1S2		(FSC)		
<i>Lytta insperata</i> Mojave Desert blister beetle	G1G2S1S2		(FSC)		
+ <i>Lyttta moesta</i> Moestan blister beetle	G2S2		(FSC)		
+ <i>Lyttta molesta</i> Molestan blister beetle	G2S2		(FSC)		
+ <i>Lyttta morrisoni</i> Morrison's blister beetle	G1G2S1S2		(FSC)		
<i>Microcylleopus fomicoideus</i> (No common name)	G?S?		(FSC)		
<i>Microcylleopus similis</i> (No common name)	G?S?		(FSC)		
<i>Miloderes nelsoni</i> Nelson's miloderes weevil	G1G3S1S3		(FSC)		
<i>Nebria darlingtoni</i> South Forks ground beetle	G?S?		(FSC)		
<i>Nebria gebleri siskiyouensis</i> Siskiyou ground beetle	G?T?S?		(FSC)		
<i>Nebria sahlbergii triad</i> Trinity Alps ground beetle	G?T?S?		(FSC)		
<i>Necydalis rudei</i> Rude's longhorn beetle	G1G3S1S3		(FSC)		

	<u>CNDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
<i>Ochthebius crassulus</i>	G1G3S1S3		(FSC)		
Wing-shoulder minute moss beetle					
+ <i>Ochthebius reticulatus</i>	G1S1		(FSC)		
Wilbur Springs minute moss beetle					
+ <i>Onychobaris langei</i>	G1S1		(FSC)		
Lange's El Segundo dune weevil					
+ <i>Optioservus canus</i>	G1S1		(FSC)		
Pinnacles optioservus riffle beetle					
<i>Paleoxenus dohrni</i>	GHSH		(FSC)		
Dohrn's elegant eucnemid beetle					
+ <i>Polyphylia anteronivea</i>	G1S1		(FSC)		
Saline Valley snow-front June beetle					
+ <i>Polyphylia barbata</i>	G1S1		FE		
Mount Hermon (=barbate) June beetle					
+ <i>Polyphylia erratica</i>	G1S1		(FSC)		
Death Valley June beetle					
+ <i>Polyphylia nubila</i>	G1S1		(FSC)		
Atascadero June beetle					
<i>Polyphylia stellata</i>	G?S?		(FSC)		
Delta June beetle					
+ <i>Pseudocotalpa andrewsi</i>	G2G3S2S3		(FSC)		
Andrew's dune scarab (beetle)					
<i>Scaphinotus behrensi</i>	G?S?		(FSC)		
(Ground beetle, no common name)					
<i>Scaphinotus longiceps</i>	G?S?		(FSC)		
Humboldt ground beetle					
<i>Trigonoscuta blaisdelli</i>	G?S?		(FSC)		
Blaisdell trigonoscuta weevil					
<i>Trigonoscuta brunnotasselata</i>	G1G2S1S2		(FSC)		
Brown-tassel trigonoscuta weevil					
<i>Trigonoscuta catalina</i>	G?S?		(FSC)		
Santa Catalina Island trigonoscuta weevil					
+ <i>Trigonoscuta dorothaea dorothaea</i>	G1T1S1		(FSC)		
Dorothy's El Segundo dune weevil					
<i>Trigonoscuta stantoni</i>	G1?S1?		(FSC)		
Santa Cruz Island shore weevil					
<i>Trigonoscuta</i> sp.	G1S1		(FSC)		
Doyen's trigonoscuta dune weevil					

INSECTA, Order Mecoptera (scorpionflies)

<i>Orbittacus obscurus</i>	G?S?	(FSC)
Gold rush hanging fly		

INSECTA, Order Diptera (flies)

<i>Ablautus schlingeri</i>	G?S?	(FSC)
Oso Flaco robberfly		

	<u>CNDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Brennania belkini</i> Belkin's dune tabanid fly	G1G2S1S2			VU/A2ce	
+ <i>Efferia antiochi</i> Antioch efferian robberfly	G1G3S1S3		(FSC)		
<i>Metapogon hurdi</i> Hurd's metapogon robberfly	G1G3S1S3		(FSC)		
+ <i>Paracoenia calida</i> Wilbur Springs shore fly	G1S1		(FSC)		
+ <i>Rhaphiomidas terminatus abdominalis</i> Delhi Sands flower-loving fly	G1T1S1		FE		

INSECTA, Order Lepidoptera (butterflies and moths)

+ <i>Adela oplerella</i> Opler's longhorn moth	G?S?		(FSC)		
+ <i>Apodemia mormo langei</i> Lange's metalmark butterfly	G5T1S1		FE		
<i>Areniscythriss brachypterus</i> Oso Flaco flightless moth	G?S?		(FSC)		
<i>Carolella busckana</i> Busck's gall moth	G1G3S1S3		(FSC)		
<i>Carterocephalus palaemon</i> ssp. Sonoma arctic skipper	G?T?S?		(FSC)		
<i>Cercyonis pegala</i> Carson Valley wood nymph butterfly	G4S4		(FSC)		
<i>Coenonympha tullia yontockett</i> Yontocket satyr butterfly	G?T?S?		(FSC)		
+ <i>Danaus plexippus</i> (wintering sites) Monarch butterfly	G5S3				
+ <i>Euchloe hyantis andrewsi</i> Andrew's marble butterfly	G5T2?S1		(FSC)		
+ <i>Eucosma hennei</i> Henne's eucosman moth	G1S1		(FSC)		
+ <i>Euphilotes battoides allyni</i> El Segundo blue butterfly	G5T1S1		FE		
<i>Euphilotes battoides comstocki</i> Comstock's blue butterfly	G5T1T3S1S3				
+ <i>Euphilotes enoptes smithi</i> Smith's blue butterfly	G5T2S2		FE		
+ <i>Euphydryas editha bayensis</i> Bay checkerspot butterfly	G5T2S2		FT		
<i>Euphydryas editha monoensis</i> Mono checkerspot butterfly	G5T3?S1S3		(FSC)		
+ <i>Euphydryas editha quino</i> Quino checkerspot butterfly	G5T1S1		FE		
<i>Euphyes vestris harbisoni</i> Dun skipper	G5T1?S1?		(FSC)		
+ <i>Euproserpinus euterpe</i> Kern primrose sphinx moth	G1S1		FT		
+ <i>Glaucoopsyche lygdamus palosverdesensis</i>	G5T1S1		FE		

	<u>CNDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
Palos Verdes blue butterfly					
<i>Hesperia mirimae</i> ssp.	G?T?S?		(FSC)		
White Mountains skipper					
<i>Hesperopsis graciella</i>	G?S?		(FSC)		
MacNeill sooty wing skipper					
+ <i>Icaricia icarioides missionensis</i>	G5T2S2		FE		
Mission blue butterfly					
<i>Icaricia icarioides moroensis</i>	G5T1T3S1S3		(FSC)		
Morro Bay blue butterfly					
<i>Icaricia icarioides</i> ssp.	G?T?S?		(FSC)		
Point Reyes blue butterfly					
+ <i>Incisalia mossii bayensis</i>	G4T1S1		FE		
San Bruno elfin butterfly					
<i>Incisalia mossii</i> ("hikupa") ssp.1	G4T?S?		(FSC)		
San Gabriel Mountains elfin butterfly					
<i>Incisalia mossii</i> ssp.2	G4T?S?		(FSC)		
Marin elfin butterfly					
+ <i>Lycaeides argyrogynomon lotis</i>	G5T1S1		FE		
Lotis blue butterfly					
<i>Lycaena hermes</i>	G3?S2?		(FSC)	VU/D2	
Hermes copper butterfly					
<i>Lycaena rubicus</i> ssp.	G?T?S?		(FSC)		
White Mountains copper butterfly					
<i>Mitoura thornei</i>	G1QS1		(FSC)		
Thorne's hairstreak butterfly					
+ <i>Panoquina errans</i>	G2G3S1		(FSC)	LRnt	
Wandering (=Saltmarsh) skipper					
+ <i>Philotiella speciosa bohartorum</i>	G4T1T3S1		(FSC)		
Bohart's blue butterfly					
<i>Plebulina emigdionis</i>	G3G4S3S4		(FSC)		
San Emigdio blue butterfly					
<i>Plebejus icarioides</i> ssp.1	G?T?S?		(FSC)		
White Mountains icarioides blue butterfly					
<i>Plebejus icarioides</i> ssp.2	G?T?S?		(FSC)		
Spring Mountains icarioides blue butterfly					
<i>Plebejus saepiolus</i> ssp.1	G5T?S?		(FSC)		
White Mountains saepiolus blue butterfly					
<i>Plebejus saepiolus</i> ssp.2	G5T?S?		(FSC)		
San Gabriel Mountains blue butterfly					
<i>Polites mardon</i>	G2S1S2			FC	
Mardon skipper					
<i>Polites sabuleti albomontana</i>	G?T?S?		(FSC)		
White Mountains sandhill skipper					
<i>Psammobotys fordi</i>	G?S?		(FSC)		
Ford's sand dune moth					
<i>Pseudocopaeodes eunus eunus</i>	G3G4T1T3S1S3		(FSC)		
Alkali (=wandering) skipper					
<i>Pseudocopaeodes eunus obscurus</i>	G3G4T1T3S1S3			FC	
Carson wandering skipper					
<i>Pyrgus ruralis lagunae</i>	G3?T1S1		FE		

	<u>CNDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
Laguna Mountains skipper					
<i>Satyrium auretorum fumosoum</i>	G?T?S?		(FSC)		
Santa Monica Mountains hairstreak butterfly					
<i>Speyeria adiaste adiaste</i>	G?T?S?		(FSC)		
Unsilvered fritillary butterfly					
+ <i>Speyeria callippe callippe</i>	G5T1T2S1S2		FE		
Callippe silverspot butterfly					
<i>Speyeria egleis tehachapina</i>	G5T3?S?		(FSC)		
Tehachapi Mountain silverspot butterfly					
<i>Speyeria nokomis</i> ssp.	G?T?S?		(FSC)		
Carson Valley silverspot butterfly					
<i>Speyeria zerene behrensii</i>	G5T?S?		FE		
Behren's silverspot butterfly					
+ <i>Speyeria zerene hippolyta</i>	G5T1S1		FT		
Oregon silverspot butterfly					
<i>Speyeria zerene myrtleae</i>	G5T1S1		FE		
Myrtle's silverspot butterfly					
<i>Thessalia leanira</i> ssp.1	G4T?S?		(FSC)		
Oso Flaco patch checkerspot butterfly					

INSECTA, Order Trichoptera (caddisflies)

<i>Cryptochia denningi</i>	G?S?	(FSC)
Denning's cryptic caddisfly		
<i>Cryptochia excella</i>	G1G3S1S3	(FSC)
Kings Canyon cryptochian caddisfly		
<i>Cryptochia shasta</i>	G?S?	(FSC)
Confusion caddisfly		
<i>Desmona bethula</i>	G?S?	(FSC)
Amphibious caddisfly		
<i>Diplectrona californica</i>	G1G3S1S3	(FSC)
California diplectronan caddisfly		
<i>Ecclisomyia bilera</i>	G1G3S1S3	(FSC)
King's Creek eccliosomyian caddisfly		
<i>Farula</i> sp.	G?S?	(FSC)
Long-tailed caddisfly		
<i>Goeracea oregana</i>	G?S?	(FSC)
Sagehen Creek goeracean caddisfly		
<i>Lepidostoma ermanae</i>	G?S?	(FSC)
Cold Spring caddisfly		
+ <i>Limnephilus atercus</i>	G1G3S1	(FSC)
Fort Dick limnophilus caddisfly		
<i>Neothremma genella</i>	G?S?	(FSC)
Golden-horned caddisfly		
<i>Neothremma siskiyou</i>	G?S?	(FSC)
Siskiyou caddisfly		
+ <i>Parapsyche extensa</i>	GHSH	(FSC)
King's Creek parapsyche caddisfly		
<i>Rhyacophila lineata</i>	G1G3S1S3	(FSC)

	<u>CNDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
Castle Crags rhyacophilan caddisfly + <i>Rhyacophila mosana</i>	G1G2S1S2		(FSC)		
Bilobed rhyacophilan caddisfly + <i>Rhyacophila spinata</i>	G1G2S1S2		(FSC)		
Spiny rhyacophilan caddisfly					

INSECTA, Order Hymenoptera (ants, bees, and wasps)

<i>Bombus franklini</i>	G?S?	(FSC)
Franklin's bumblebee		
+ <i>Eucerceris ruficeps</i>	G1G3S1S3	(FSC)
Redheaded sphecid wasp		
+ <i>Myrmosula pacifica</i>	GHSH	(FSC)
Antioch mutilid wasp		
+ <i>Perdita scituta antiochensis</i>	G1T1S1	(FSC)
Antioch andrenid bee		
<i>Proceratium californicum</i>	G?S?	(FSC)
Valley oak ant		
<i>Smithistruma reliquia</i>	G?S?	(FSC)
Ancient ant		

FISHES

	<u>CNDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
PETROMYZONTIDAE (lampreys)					
<i>Lampetra ayresi</i> River lamprey	G5S4		(FSC)		DFG: CSC
+ <i>Lampetra hubbsi</i> Kern brook lamprey	G2S1S2		(FSC)	LRnt	DFG: CSC
<i>Lampetra similis</i> Klamath River lamprey	G3G4QS3S4				DFG: CSC
+ <i>Lampetra tridentata</i> ssp.1 Goose Lake lamprey	G5T1S1		(FSC)		DFG: CSC FS: Sensitive
ACIPENSERIDAE (sturgeon)					
<i>Acipenser medirostris</i> Green sturgeon	G4G5S1S2		(FSC)	VU/A1ac	DFG: CSC
SALMONIDAE (trout and salmon)					
+ <i>Oncorhynchus clarki clarki</i> Coast cutthroat trout	G4T4S3				DFG: CSC FS: Sensitive
+ <i>Oncorhynchus clarki henshawi</i> Lahontan cutthroat trout	G4T2S2		FT		
+ <i>Oncorhynchus clarki seleniris</i> Paiute cutthroat trout	G4T1T2S1S2		FT		
<i>Oncorhynchus gorbuscha</i> Pink salmon	G5SH				DFG: CSC
<i>Oncorhynchus keta</i> Chum salmon	G5S1?				DFG: CSC
+ <i>Oncorhynchus kisutch</i> Coho salmon - Central California ESU ³	G5S2?	SE ¹	FT ²		
+ <i>Oncorhynchus kisutch</i> Coho Salmon - So. Oregon/No. California ESU	G5S2?		FT ⁴		DFG: CSC
+ <i>Oncorhynchus mykiss aguabonita</i> Volcano Creek golden trout	G5T1S1		(FSC)		DFG: CSC FS: Sensitive

¹The State listing is limited to Coho south of San Francisco Bay.

²The Federal listing is limited to naturally spawning populations in streams between Punta Gorda, Humboldt Co. and the San Lorenzo River, Santa Cruz Co.

³ESU = Evolutionarily Significant Unit.

⁴Populations between Cape Blanco (Oregon) and Punta Gorda (California).

	<u>CNDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Oncorhynchus mykiss aquilarum</i> Eagle Lake rainbow trout	G5T1S1		(FSC)		DFG: CSC FS: Sensitive
+ <i>Oncorhynchus mykiss</i> ⁵ Steelhead-Klamath Mountains Province ESU	G5S2		FC ⁶		
+ <i>Oncorhynchus mykiss</i> Steelhead-Northern California ESU	G5S2		FT ⁷		
+ <i>Oncorhynchus mykiss</i> Steelhead-Central California Coast ESU	G5S2		FT ⁸		
+ <i>Oncorhynchus mykiss</i> Steelhead-South/Central California Coast ESU	G5S2		FT ⁹		DFG: CSC ¹⁰
+ <i>Oncorhynchus mykiss</i> Steelhead-Southern California ESU	G5S2		FE ¹¹		DFG: CSC ¹²
<i>Oncorhynchus mykiss</i> Steelhead-Central Valley ESU	G5S2		FT ¹³		
+ <i>Oncorhynchus mykiss</i> ¹⁴ Steelhead-Summer-run	G5S2		FC		DFG: CSC FS: Sensitive
<i>Oncorhynchus mykiss gilberti</i> Kern River rainbow trout	G5T1T2S1S2		(FSC)		DFG: CSC
+ <i>Oncorhynchus mykiss whitei</i> Little Kern golden trout	G5T2S2		FT		
+ <i>Oncorhynchus mykiss</i> ssp.1 Goose Lake redband trout	G5T1S1		(FSC)		DFG: CSC FS: Sensitive

⁵All California steelhead belong to the subspecies *O. m. irideus*.

⁶Federal candidate status includes all runs between the Elk River in Oregon and the Klamath & Trinity Rivers in California, inclusive.

⁷Naturally spawned populations residing below impassable barriers in coastal basins from Redwood Creek in Humboldt Co to, and including the Gualala River in Mendocino Co.

⁸Federal listing includes all runs in coastal basins from the Russian River, south to Soquel Creek, inclusive. Includes the San Francisco and San Pablo Bay basins, but excludes the Sacramento-San Joaquin River basins.

⁹Federal listing includes all runs in coastal basins from the Pajaro River south to, but not including, the Santa Maria River.

¹⁰CSC refers to southern steelhead trout.

¹¹Federal listing includes all runs in coastal basins from the Santa Maria River, south to the southern extent of the range (presently considered to be Malibu Creek).

¹²CSC refers to southern steelhead trout.

¹³Federal listing includes all runs in the Sacramento & San Joaquin rivers and their tributaries.

¹⁴Summer-run steelhead are part of both the Klamath Mountains Province ESU & the Northern California ESU

	<u>CNDDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Oncorhynchus mykiss</i> ssp.2 McCloud River redband trout	G5T1T2QS1S2				DFG: CSC FS: Sensitive
<i>Oncorhynchus mykiss</i> ssp.3 Warner Valley redband trout	G5T1?S1?		(FSC)		FS: Sensitive
+ <i>Oncorhynchus tshawytscha</i> Chinook salmon-Spring-run	G5S1	ST	FT		FS: Sensitive
<i>Oncorhynchus tshawytscha</i> Chinook salmon-Central Valley fall/late fall-run	G5S2?		FC ¹⁵		DFG: CSC FS: Sensitive
<i>Oncorhynchus tshawytscha</i> Chinook salmon-Calif. coastal ESU	G5S1		FT ¹⁶		
+ <i>Oncorhynchus tshawytscha</i> Chinook salmon-Winter-run	G5S1	SE	FE		
+ <i>Salvelinus confluentus</i> Bull trout	G3SX	SE	FT	VU/A2e	
OSMERIDAE (smelt)					
<i>Hypomesus transpacificus</i> Delta smelt	G1S1	ST	FT	EN/B1+2cd	
<i>Spirinchus thaleichthys</i> Longfin smelt	G4G5S1		(FSC)		DFG: CSC
<i>Thaleichthys pacificus</i> Eulachon	G4G5S3				DFG: CSC
CYPRINIDAE (minnows and carp)					
+ <i>Gila bicolor mohavensis</i> Mohave tui chub	G4T1S1	SE	FE		DFG: Fully protected
<i>Gila bicolor pectinifer</i> Lahontan Lake tui chub	G4T3S1S2				DFG: CSC FS: Sensitive
+ <i>Gila bicolor snyderi</i> Owens tui chub	G4T1S1	SE	FE		
+ <i>Gila bicolor thalassina</i> Goose Lake tui chub	G4T2S1				DFG: CSC FS: Sensitive
+ <i>Gila bicolor vaccaceps</i> Cowhead Lake tui chub	G4T1S1		FPE		DFG: CSC
+ <i>Gila bicolor</i> ssp.1 Eagle Lake tui chub	G4T1S1				DFG: CSC
+ <i>Gila bicolor</i> ssp.2 High Rock Springs tui chub	G4TXSX				DFG: CSC
+ <i>Gila coerulea</i> Blue chub	G3S2S3				DFG: CSC

¹⁵Central Valley fall/late fall-run ESU refers to populations spawning in the Sacramento & San Joaquin Rivers and their tributaries.

¹⁶Originally proposed as part of a larger Southern Oregon & California Coastal ESU. This new ESU was revised to include only naturally spawned coastal spring & fall chinook salmon between Redwood Creek in Humboldt Co. and the Russian River in Sonoma Co.

	<u>CNDDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Gila elegans</i> Bonytail	G1S1	SE	FE	EN/B1+2ac	
+ <i>Gila orcutti</i> Arroyo chub	G2S2		(FSC)		DFG: CSC FS: Sensitive
<i>Lavinia exilicauda chi</i> Clear Lake hitch	G5T2S2				DFG: CSC FS: Sensitive
+ <i>Lavinia symmetricus mitrulus</i> Pit roach	G5T2?S2?		(FSC)		DFG: CSC
+ <i>Lavinia symmetricus navarroensis</i> Navarro roach	G5T1T2S1S2				DFG: CSC
+ <i>Lavinia symmetricus parvipinnis</i> Gualala roach	G5T1T2S1S2		(FSC)		DFG: CSC
<i>Lavinia symmetricus subditus</i> Monterey roach	G5T2T3S2S3				DFG: CSC
+ <i>Lavinia symmetricus</i> ssp.1 San Joaquin roach	G5T3?QS3?				DFG: CSC
+ <i>Lavinia symmetricus</i> ssp.2 Tomales roach	G5T2T3S2S3				DFG: CSC
+ <i>Lavinia symmetricus</i> ssp.3 Red Hills roach	G5T1?S1?				DFG: CSC BLM: Sensitive
+ <i>Mylopharadon conocephalus</i> Hardhead	G3S3				DFG: CSC FS: Sensitive
+ <i>Pogonichthys macrolepidotus</i> Sacramento splittail	G2S2		FT	EN/A1c	DFG: CSC
+ <i>Ptychocheilus lucius</i> Colorado pikeminnow	G1SX	SE	FE	VU/D2	DFG: Fully protected
+ <i>Rhinichthys osculus</i> ssp.1 Amargosa Canyon speckled dace	G5T1S1		(FSC)		DFG: CSC BLM: Sensitive
+ <i>Rhinichthys osculus</i> ssp.2 Owens speckled dace	G5T1T2QS1S2		(FSC)		DFG: CSC
+ <i>Rhinichthys osculus</i> ssp.3 Santa Ana speckled dace	G5T1S1		(FSC)		DFG: CSC FS: Sensitive
<i>Rhinichthys osculus</i> ssp.4 Benton Valley speckled dace	G5T1QS1		(FSC)		
<i>Rhinichthys osculus</i> ssp.5 Long Valley speckled dace	G5T1S1		(FSC)		

CATOSTOMIDAE (suckers)

+ <i>Catostomus fumeiventris</i> Owens sucker	G3S3			DFG: CSC
+ <i>Catostomus latipinnis</i> Flannelmouth sucker	G?S1		(FSC)	
+ <i>Catostomus microps</i> Modoc sucker	G1S1	SE	FE	EN/B1+2c, C1 DFG: Fully protected
+ <i>Catostomus occidentalis lacusanserinus</i> Goose Lake sucker	G4T2T3S1		(FSC)	DFG: CSC FS: Sensitive
<i>Catostomus platyrhynchus</i> Mountain sucker	G5S2S3			DFG: CSC
<i>Catostomus rimiculus</i> ssp.1 Jenny Creek sucker	G4?T1?S1?		(FSC)	

	<u>CNDDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Catostomus santaanae</i> Santa Ana sucker	G1S1		FT	VU/B1+2c, D2	DFG: CSC FS: Sensitive
+ <i>Catostomus snyderi</i> Klamath largescale sucker	G3S2		(FSC)	LRnt	DFG: CSC
+ <i>Chasmistes brevirostris</i> Shortnose sucker	G1S1	SE	FE	EN/B1+2c	DFG: Fully protected
+ <i>Deltistes luxatus</i> Lost River sucker	G1S1	SE	FE	EN/B1+2cd	DFG: Fully protected
+ <i>Xyrauchen texanus</i> Razorback sucker	G1S1	SE	FE	EN/A1bc	DFG: Fully protected

CYPRINODONTIDAE (killifishes)

+ <i>Cyprinodon macularius</i> Desert pupfish	G1S1	SE	FE		
+ <i>Cyprinodon nevadensis amargosae</i> Amargosa pupfish	G2T1S1				DFG: CSC FS: Sensitive BLM: Sensitive
+ <i>Cyprinodon nevadensis nevadensis</i> Saratoga Springs pupfish	G2T1S1				DFG: CSC
+ <i>Cyprinodon nevadensis shoshone</i> Shoshone pupfish	G2T1S1		(FSC)		DFG: CSC
+ <i>Cyprinodon radiosus</i> Owens pupfish	G1S1	SE	FE	EN/A2ce	DFG: Fully protected
+ <i>Cyprinodon salinus milleri</i> Cottonball Marsh pupfish	G1T1S1	ST			
+ <i>Cyprinodon salinus salinus</i> Salt Creek pupfish	G1T1S1				DFG: CSC

GASTERosteidae (sticklebacks)

+ <i>Gasterosteus aculeatus williamsoni</i> Unarmored threespine stickleback	G5T1S1	SE	FE	DFG: Fully protected
<i>Gasterosteus aculeatus santaanae</i> Santa Ana threespine stickleback	G5T1S1			
<i>Gasterosteus aculeatus</i> ssp. Shay Creek threespine stickleback	G5T1S1			DFG: CSC

PERCICHTHYIDAE (temperate basses)

<i>Stereolepis gigas</i> (spawning grounds) Giant sea bass	G3?S1S2		CR/A1bd
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CENTRARCHIDAE (sunfishes)

+ <i>Archoplites interruptus</i> (within native range) Sacramento perch	G3S1	(FSC)	DFG: CSC
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	<u>CNDDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
EMBIOTOCIDAE (surfperches)					
+ <i>Hysterocarpus traskii pomo</i> Russian River tule perch	G5T2?S2?		(FSC)		DFG: CSC
GOBIIDAE (gobies)					
+ <i>Eucyclogobius newberryi</i> Tidewater goby	G2G3S2S3		FPD ¹⁷ FE	VU/A1c+2c	DFG: CSC
COTTIDAE (sculpins)					
+ <i>Cottus asperrimus</i> Rough sculpin	G2S2	ST	(FSC)	VU/D2	DFG: Fully protected
+ <i>Cottus klamathensis macrops</i> Bigeye marbled sculpin	G4T3S3				DFG: CSC
<i>Cottus perplexus</i> Reticulate sculpin	G4G5S2S3				DFG: CSC

¹⁷Proposal to delist refers to populations north of Orange County only.

AMPHIBIANS

	<u>CNDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
AMBystomatidae (mole salamanders)					
+ <i>Ambystoma macrodactylum croceum</i> Santa Cruz long-toed salamander	G5T1S1	SE	FE		DFG: Fully protected DFG: Protected
+ <i>Ambystoma californiense</i> California tiger salamander Santa Barbara Co. DPS ¹⁸	G2G3S2S3		FC	VU/A2c FE ¹⁹	DFG: CSC DFG: Protected
Rhyacotritonidae (Olympic salamanders)					
+ <i>Rhyacotriton variegatus</i> (= <i>olympicus</i>) Southern torrent (=seep) salamander	G4S2S3			(FSC)	DFG: CSC DFG: Protected FS: Sensitive
Salamandridae (newts)					
<i>Taricha torosa torosa</i> Coast Range newt (SLO south)	G3G4T3S3				DFG: CSC
Plethodontidae (lungless salamanders)					
+ <i>Batrachoseps aridus</i> Desert slender salamander	G1S1	SE	FE	CR/A2cd	DFG: Protected
+ <i>Batrachoseps campi</i> Inyo Mountains slender salamander	G2S2		(FSC)	EN/B1+2a	DFG: CSC DFG: Protected FS: Sensitive BLM: Sensitive
<i>Batrachoseps gabrieli</i> San Gabriel Mountains slender salamander	G1S1				FS: Sensitive
<i>Batrachoseps pacificus pacificus</i> Channel Islands slender salamander	G3QT2S2		(FSC)		
<i>Batrachoseps reliktus</i> (= <i>pacificus</i>) Relictual slender salamander	G2?S2?		(FSC)		DFG: CSC FS: Sensitive
+ <i>Batrachoseps simatus</i> Kern Canyon slender salamander	G2S2	ST	(FSC)	VU/D2	DFG: Protected FS: Sensitive
+ <i>Batrachoseps stebbinsi</i> Tehachapi slender salamander	G2S2	ST	(FSC)	VU/D2	DFG: Protected FS: Sensitive BLM: Sensitive
+ <i>Batrachoseps</i> sp.1 Breckenridge Mountain slender salamander	G1S1		(FSC)		DFG: CSC FS: Sensitive
+ <i>Batrachoseps</i> sp.2 (No common name)	G1S1?				

¹⁸DPS = Distinct Vertebrate Population Segment.

¹⁹Emergency listed. Federal listing refers to the Santa Barbara County DPS only.

	<u>CNDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Batrachoseps</i> sp.3 Scodie Mountains slender salamander	G1S1?				
+ <i>Batrachoseps</i> sp.4 Kern Plateau slender salamander	G2S2				FS: Sensitive
+ <i>Batrachoseps</i> sp.5 Guadalupe Creek slender salamander	G1S1				
+ <i>Ensatina eschscholtzi croceator</i> Yellow-blotched salamander	G5T2T3S2S3		(FSC)		DFG: CSC FS: Sensitive BLM: Sensitive
+ <i>Ensatina eschscholtzi klauberi</i> Large-blotched salamander	G5T2T3S2S3		(FSC)		DFG: CSC FS: Sensitive
+ <i>Hydromantes brunus</i> Limestone salamander	G1S1	ST	(FSC)	VU/D2	DFG: Fully protected DFG: Protected FS: Sensitive
+ <i>Hydromantes platycephalus</i> Mount Lyell salamander	G3G4S3S4		(FSC)		DFG: CSC DFG: Protected
+ <i>Hydromantes shastae</i> Shasta salamander	G1G2S1S2	ST	(FSC)	VU/D2	DFG: Protected
+ <i>Hydromantes</i> sp.1 (No common name)	G1?S1?				
<i>Hydromantes</i> sp.2 Owens Valley web-toed salamander	G2?S2?		(FSC)		DFG: CSC
+ <i>Plethodon elongatus</i> Del Norte salamander	G3S3		(FSC)		DFG: CSC DFG: Protected
+ <i>Plethodon stormi</i> Siskiyou Mountains salamander	G3QS1S2	ST	(FSC)	VU/D2	DFG: Protected
ASCAPHIDAE (tailed frogs)					
+ <i>Ascaphus truei</i> Tailed frog	G3G4S2S3		(FSC)		DFG: CSC DFG: Protected
PELOBATIDAE (spadefoot toads)					
+ <i>Scaphiopus couchii</i> Couch's spadefoot	G5S2S3				DFG: CSC BLM: Sensitive
+ <i>Scaphiopus</i> (= <i>Spea</i>) <i>hammondii</i> Western spadefoot	G3?S3?		(FSC)		DFG: CSC DFG: Protected BLM: Sensitive
BUFONIDAE (true toads)					
<i>Bufo alvarius</i> Colorado River toad	G3G4S1?				DFG: CSC DFG: Protected
+ <i>Bufo canorus</i> Yosemite toad	G2G3S2S3		(FSC)	EN/A1a, B2be+3b	DFG: CSC DFG: Protected FS: Sensitive
+ <i>Bufo exsul</i> Black toad	G1S1	ST	(FSC)	VU/D2	DFG: Fully protected DFG: Protected

	<u>CNDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Bufo microscaphus californicus</i> Arroyo toad	G4T3?S2S3		FE		DFG: CSC DFG: Protected (Full species)
<i>Bufo microscaphus microscaphus</i> Arizona toad	G4T3S1?		(FSC)		DFG: Protected (Full species)
RANIDAE (true frogs)					
+ <i>Rana aurora aurora</i> Northern red-legged frog	G4T2?S2?		(FSC)		DFG: CSC DFG: Protected (Full species)
+ <i>Rana aurora draytonii</i> California red-legged frog	G4T2T3S2S3		FT		FS: Sensitive DFG: CSC DFG: Protected (Full species)
+ <i>Rana boylii</i> Foothill yellow-legged frog	G3S2S3		(FSC)		DFG: CSC DFG: Protected FS: Sensitive BLM: Sensitive
+ <i>Rana cascadae</i> Cascades frog	G4S3		(FSC)	VU/A1a	DFG: CSC DFG: Protected FS: Sensitive
+ <i>Rana muscosa</i> Mountain yellow-legged frog	G5S2S3		FPE ²⁰	VU/A1a	DFG: CSC DFG: Protected FS: Sensitive
+ <i>Rana pipiens</i> Northern leopard frog	G5S2				DFG: CSC FS: Sensitive
<i>Rana pretiosa</i> Spotted frog	G5S1		FC		DFG: CSC DFG: Protected FS: Sensitive
<i>Rana yavapaiensis</i> Lowland (=Yavapai & San Felipe) leopard frog	G3SX		(FSC)		DFG: CSC DFG: Protected BLM: Sensitive

²⁰Federal listing proposal refers to populations in the San Gabriel, San Jacinto & San Bernardino Mountains only.

REPTILES

	<u>CNDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
KINOSTERNIDAE (musk and mud turtles)					
<i>Kinosternon sonoriense</i> Sonoran mud turtle	G4G5SH			VU/A1c	DFG: CSC DFG: Protected
EMYDIDAE (box and water turtles)					
+ <i>Clemmys marmorata</i> Western pond turtle	G4S3		(FSC)	VU/A1cd	DFG: CSC DFG: Protected
+ <i>Clemmys marmorata marmorata</i> Northwestern pond turtle	G4T4S3		(FSC)		DFG: CSC DFG: Protected (Full species)
+ <i>Clemmys marmorata pallida</i> Southwestern pond turtle	G4T2T3S2		(FSC)		FS: Sensitive DFG: CSC DFG: Protected (Full species) FS: Sensitive BLM: Sensitive
TESTUDINIDAE (land tortoises)					
+ <i>Gopherus (=Xerobates) agassizi</i> Desert tortoise	G3S2	ST	FT	VU/A1acde +2cde, E	DFG: Protected
GEKKONIDAE (geckos)					
+ <i>Coleonyx switaki</i> Barefoot gecko	G1S1	ST	(FSC)		DFG: Protected
<i>Coleonyx variegatus abbotti</i> San Diego banded gecko	G5T3T4S2S3		(FSC)		
IGUANIDAE (iguanids)					
+ <i>Sauromalus obesus</i> Chuckwalla	G5S4		(FSC)		
CROTAPHYTIDAE					
+ <i>Gambelia sila (=silus)</i> Blunt-nosed leopard lizard	G1S1	SE	FE	EN/A1ce	DFG: Fully protected DFG: Protected

	<u>CNDB RANKS</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
PHRYNOSOMATIDAE					
+ <i>Phrynosoma coronatum blainvilliei</i> San Diego horned lizard	G4T3T4S2S3		(FSC)		DFG: CSC DFG: Protected (Full species) FS: Sensitive
+ <i>Phrynosoma coronatum frontale</i> California horned lizard	G4T3T4S3S4		(FSC)		DFG: CSC DFG: Protected (Full species) BLM: Sensitive
+ <i>Phrynosoma mcallii</i> Flat-tailed horned lizard	G2S2				DFG: CSC DFG: Protected BLM: Sensitive
<i>Sceloporus graciosus graciosus</i> Northern sagebrush lizard	G5T5S3		(FSC)		BLM: Sensitive
+ <i>Uma inornata</i> Coachella Valley fringe-toed lizard	G1S1	SE	FT	EN/A1a, B1+2c	DFG: Protected
<i>Uma notata notata</i> Colorado Desert fringe-toed lizard	G3QT3S2?		(FSC)		DFG: CSC BLM: Sensitive
<i>Uma scoparia</i> Mojave fringe-toed lizard	G3G4S3S4				DFG: CSC BLM: Sensitive
XANTUSIIDAE (night lizards)					
<i>Xantusia henshawi gracilis</i> Sandstone night lizard	G3G4T1S1		(FSC)		DFG: CSC DFG: Protected (Full species)
+ <i>Xantusia riversiana</i> Island night lizard	G1S1		FT	VU/D2	DFG: Protected
<i>Xantusia vigilis sierrae</i> Sierra night lizard	G4G5T1S1		(FSC)		DFG: CSC FS: Sensitive
SCINCIDAE (skinks)					
+ <i>Eumeces skiltonianus interparietalis</i> Coronado skink	G5T2T3S1S2		(FSC)		DFG: CSC BLM: Sensitive
TEIIDAE (whiptails and relatives)					
+ <i>Cnemidophorus hyperythrus beldingi</i> Beldings orange-throated whiptail	G5T2S2		(FSC) (Full Species)	DD (Full species)	DFG: CSC DFG: Protected (Full species)
+ <i>Cnemidophorus tigris multiscutatus</i> Coastal western whiptail	G5T3?S2S3		(FSC)		
ANGUIDAE (alligator lizards)					
+ <i>Elgaria (=Gerrhonotus) panamintinus</i> Panamint alligator lizard	G1G2S1S2		(FSC)	VU/D2	DFG: CSC DFG: Protected FS: Sensitive

	<u>CNDDB RANKS</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
					BLM: Sensitive
ANNIELLIDAE (legless lizards)					
+ <i>Anniella pulchra pulchra</i> Silvery legless lizard	G4QT3S3		(FSC)		DFG: CSC FS: Sensitive
+ <i>Anniella pulchra nigra</i> Black legless lizard	G4QT2S2				DFG: CSC DFG: Protected FS: Sensitive
HELODERMATIDAE (venomous lizards)					
+ <i>Heloderma suspectum cinctum</i> Banded gila monster (population west of Colorado River)	G3G4T1S1		(FSC)	VU/A2cd (Full species)	DFG: CSC DFG: Protected BLM: Sensitive (Full species)
BOIDAE (boas)					
+ <i>Charina bottae umbratica</i> Southern rubber boa	G5T2T3S2S3	ST	(FSC)		FS: Sensitive DFG: Protected
<i>Charina (=Lichanura) trivirgata</i> Sensitive Rosy boa	G5S3S4			(FSC)	BLM:
COLUBRIDAE (colubrids)					
<i>Bogertiphis (=Elaphe) rosaliae</i> Baja California rat snake	G4?S1				DFG: CSC
+ <i>Diadiphas punctatus modestus</i> San Bernardino ringneck snake	G5T2?S2		(FSC)		FS: Sensitive
+ <i>Diadiphas punctatus similis</i> San Diego ringneck snake	G5T2?S2?				FS: Sensitive
+ <i>Lampropeltis zonata parvirostris</i> San Bernardino mountain kingsnake	G4T2?S2?		(FSC)		DFG: CSC FS: Sensitive
+ <i>Lampropeltis zonata pulchra</i> San Diego mountain kingsnake	G4T1T2S1S2		(FSC)		DFG: CSC DFG: Protected FS: Sensitive
+ <i>Masticophis flagellum ruddocki</i> San Joaquin whipsnake	G5T2?S2?		(FSC)		DFG: CSC DFG: Protected
+ <i>Masticophis lateralis euryxanthus</i> Alameda whipsnake (=striped racer)	G4T2S2	ST	FT		DFG: Protected
<i>Pituophis melanoleucus pumilus</i> Santa Cruz gopher snake	G5T1?S1?		(FSC)		DFG: CSC
+ <i>Salvadora hexalepis virgulata</i> Coast patch-nosed snake	G5T3S2S3		(FSC)		DFG: CSC
+ <i>Thamnophis gigas</i> Giant garter snake	G2G3S2S3	ST	FT	VU/A1cde +2cde	DFG: Protected
+ <i>Thamnophis hammondii</i> Two-striped garter snake	G3?S2			DD	DFG: CSC DFG: Protected

	<u>CNDDB RANKS</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Thamnophis sirtalis tetrataenia</i> San Francisco garter snake	G5T2S2	SE	FE	NE	FS: Sensitive BLM: Sensitive
<i>Thamnophis sirtalis</i> ssp. South Coast garter snake	G5T1T2S1S2		(FSC)		DFG: Fully protected DFG: Protected DFG: CSC
VIPERIIDAE (vipers)					
+ <i>Crotalus ruber ruber</i> Northern red-diamond rattlesnake	G4T3T4S2?		(FSC)		DFG: CSC

BIRDS

	<u>CNDBB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
GAVIIDAE (loons)					
<i>Gavia immer</i> (nesting) Common loon	G5S1				DFG: CSC FWS: MNBMC
HYDROBATIDAE (storm petrels)					
+ <i>Oceanodroma furcata</i> (rookery site) Fork-tailed storm-petrel	G5S1				DFG: CSC
+ <i>Oceanodroma homochroa</i> (rookery site) Ashy storm-petrel	G2S2		(FSC)	LRnt	DFG: CSC FWS: MNBMC PIF: Watch list
+ <i>Oceanodroma Melania</i> (rookery site) Black storm-petrel	G3S1				DFG: CSC PIF: Watch list
PELECANIDAE (pelicans)					
+ <i>Pelecanus erythrorhynchos</i> (nesting colony) American white pelican	G3S1				DFG: CSC Audubon: Cal WL
+ <i>Pelecanus occidentalis californicus</i> California brown pelican (nesting colony)	G4T3S1S2	SE	FE		FWS: MNBMC DFG: Fully protected
PHALACROCORACIDAE (cormorants)					
+ <i>Phalacrocorax auritus</i> (rookery site) Double-crested cormorant	G5S3				DFG: CSC
ARDEIDAE (herons, egrets, and bitterns)					
+ <i>Ardea alba</i> (rookery) Great egret	G5S4				CDF: Sensitive
+ <i>Ardea herodias</i> (rookery) Great blue heron	G5S4				CDF: Sensitive
<i>Botaurus lentiginosus</i> American bittern	G5S3				FWS: MNBMC
+ <i>Egretta thula</i> (rookery) Snowy egret	G5S4				
+ <i>Ixobrychus exilis hesperis</i> (nesting) Western least bittern	G5T1S1		(FSC)		DFG: CSC FWS: MNBMC (Full species)
+ <i>Nycticorax nycticorax</i> (rookery) Black-crowned night heron	G5S3				

	<u>CNDB RANKS</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
THRESKIORNITHIDAE (ibises and spoonbills)					
+ <i>Plegadis chihi</i> (rookery site) White-faced ibis	G5S1		(FSC)		DFG: CSC FWS: MNBMC
CICONIIDAE (storks)					
<i>Mycteria americana</i> Wood stork					DFG: CSC
CATHARTIDAE (New World vultures)					
+ <i>Gymnogyps californianus</i> California condor	G1S1	SE	FE	CR/D1	CDF: Sensitive DFG: Fully protected
ANATIDAE (ducks, geese, and swans)					
<i>Aythya valisineria</i> (nesting) Canvasback	G5S2?				
+ <i>Branta canadensis leucopareia</i> (wintering) Aleutian Canada goose	G5T2S2		FT		
<i>Bucephala islandica</i> (nesting) Barrow's goldeneye	G5S1				DFG: CSC Audubon: Cal WL
<i>Dendrocygna bicolor</i> (nesting) Fulvous whistling duck	G5S1S3		(FSC)		DFG: CSC
+ <i>Histrionicus histrionicus</i> (nesting) Harlequin duck	G5S2		(FSC)		DFG: CSC
ACCIPITRIDAE (hawks, kites, harriers, and eagles)					
+ <i>Accipiter cooperi</i> (nesting) Cooper's hawk	G4S3				DFG: CSC
+ <i>Accipiter gentilis</i> (nesting) Northern goshawk	G4S3		(FSC)		DFG: CSC FWS: MNBMC FS: Sensitive CDF: Sensitive
+ <i>Accipiter striatus</i> (nesting) Sharp-shinned hawk	G4S3				DFG: CSC
+ <i>Aquila chrysaetos</i> (nesting and wintering) Golden eagle	G4S3				DFG: CSC DFG: Fully protected CDF: Sensitive
<i>Buteo regalis</i> (wintering) Ferruginous hawk	G4S3S4		(FSC)		DFG: CSC Audubon: Cal WL FWS: MNBMC
+ <i>Buteo swainsoni</i> (nesting) Swainson's hawk	G4S2	ST			
+ <i>Circus cyaneus</i> (nesting) Northern harrier	G5S3				DFG: CSC
+ <i>Elanus leucurus</i> (nesting)	G5S3				FWS: MNBMC

	<u>CNDDB RANKS</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
White-tailed kite					DFG: Fully protected
+ <i>Haliaeetus leucocephalus</i> (nesting and wintering)	G4S2	SE	FPD		CDF: Sensitive
Bald eagle			FT		DFG: Fully protected
+ <i>Pandion haliaetus</i> (nesting)	G5S3				DFG: CSC
Osprey					CDF: Sensitive
<i>Parabuteo unicinctus</i> (nesting)	G5SH				DFG: CSC
Harris' hawk					
FALCONIDAE (falcons)					
<i>Falco columbarius</i> (wintering)	G5S3				DFG: CSC
Merlin					
+ <i>Falco mexicanus</i> (nesting)	G5S3				DFG: CSC
Prairie falcon					Audubon: Cal WL
+ <i>Falco peregrinus anatum</i> (nesting)	G3T2S2	SE	Delisted		FWS: MNBMC (Full species)
American peregrine falcon					CDF: Sensitive
					DFG: Fully protected
PHASIANIDAE (grouse and ptarmigan)					
<i>Bonasa umbellus</i>	G5S4				DFG: CSC
Ruffed grouse					
+ <i>Centrocercus urophasianus</i> (nesting)	G5S3				DFG: CSC
Sage grouse					Audubon: Cal WL
					BLM: Sensitive
<i>Tympanuchus phasianellus columbianus</i>	G4T2SX		(FSC)		DFG: CSC
Columbian sharp-tailed grouse					
RALLIDAE (rails, coots, and gallinules)					
+ <i>Coturnicops noveboracensis</i>	G4S1S2				DFG: CSC
Yellow rail					FWS: MNBMC
					PIF: Watch list
					Audubon: Cal WL
+ <i>Laterallus jamaicensis coturniculus</i>	G4T1S1	ST	(FSC)		PIF: Watch list (Full species)
California black rail					DFG: Fully protected
					Audubon: Cal WL
					FWS: MNBMC (Full species)
+ <i>Rallus longirostris levipes</i>	G5T1S1	SE	FE		DFG: Fully protected
Light-footed clapper rail					
+ <i>Rallus longirostris obsoletus</i>	G5T1S1	SE	FE		DFG: Fully protected
California clapper rail					
+ <i>Rallus longirostris yumanensis</i>	G5T3S1	ST	FE		DFG: Fully protected
Yuma clapper rail					
GRUIDAE (cranes)					

	<u>CNDB RANKS</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Grus canadensis tabida</i> (nesting and wintering) Greater sandhill crane	G5T2S2	ST			DFG: Fully protected Audubon: Cal WL
CHARADRIIDAE (plovers and relatives)					
+ <i>Charadrius alexandrinus nivosus</i> (nesting) Western snowy plover (coastal population)	G4T2S2		FT		DFG: CSC FWS: MNBMC (Full species) PIF: Watch list (Full species)
+ <i>Charadrius alexandrinus nivosus</i> (nesting) Western snowy plover (inland populations)	G4T2S2				DFG: CSC FWS: MNBMC (Full species) PIF: Watch list (Full species)
+ <i>Charadrius montanus</i> (wintering) Mountain plover	G3S2?		FPT	VU/A1c	DFG:CSC PIF: Watch list FWS: MNBMC
HAEMATOPODIDAE (oystercatchers)					
<i>Haematopus bachmani</i> (nesting) Black oystercatcher	G5S2				PIF: Watch list Audubon: Cal WL
SCOLOPACIDAE (sandpipers and relatives)					
<i>Numenius americanus</i> (nestng) Long-billed curlew	G5S2				DFG: CSC Audubon: Cal WL FWS: MNBMC PIF: Watch list
LARIDAE (gulls and terns)					
+ <i>Chlidonias niger</i> (nesting colony) Black tern	G5S2		(FSC)		DFG: CSC FWS: MNBMC
<i>Larus atricilla</i> (nesting colony) Laughing gull	G?SH				DFG: CSC
+ <i>Larus californicus</i> (nesting colony) California gull	G5S2				DFG: CSC
+ <i>Rynchops niger</i> (nesting colony) Black skimmer	G5S1S3				DFG: CSC
+ <i>Sterna antillarum browni</i> (nesting colony) California least tern	G4T2T3S2S3	SE	FE		FWS: MNBMC (Full species) DFG: Fully protected
+ <i>Sterna caspia</i> (nesting colony) Caspian tern	G5S4				
<i>Sterna elegans</i> (nesting colony) Elegant tern	G5S1		(FSC)	LRnt	DFG: CSC FWS: MNBMC
<i>Sterna forsteri</i> (nesting colony) Forster's tern	G5S4				Audubon: Cal WL

	<u>CNDB RANKS</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Sterna nilotica vanrossemi</i> (nesting colony) Van Rossem's gull-billed tern	G5T1S1		(FSC)		DFG: CSC
ALCIDAE (auklets, puffins, and relatives)					
+ <i>Brachyramphus marmoratus</i> (nesting) Marbled murrelet	G3S1	SE	FT	LRnt	FWS: MNBMC CDF: Sensitive DFG: CSC
+ <i>Cerorhinca monocerata</i> (nesting colony) Rhinoceros auklet	G5S3				DFG: CSC
+ <i>Fratercula cirrhata</i> (nesting colony) Tufted puffin	G5S2				DFG: CSC
+ <i>Synthliboramphus hypoleucus</i> (nesting colony) Xantus' murrelet	G4?S3		(FSC)	LRnt	DFG: CSC FWS: MNBMC PIF: Watch list
CUCULIDAE (cuckoos and relatives)					
+ <i>Coccyzus americanus occidentalis</i> (nesting) Western yellow-billed cuckoo	G5T2T3S1	SE			FWS: MNBMC (Full species)
STRIGIDAE (owls)					
+ <i>Asio flammeus</i> (nesting) Short-eared owl	G5S3				DFG: CSC Audubon: Cal WL FWS: MNBMC PIF: Watch list DFG: CSC
+ <i>Asio otus</i> (nesting) Long-eared owl	G5S3				DFG: CSC
+ <i>Athene cunicularia hypugea</i> (burrow sites) Burrowing owl	G4T2S2		(FSC)		DFG: CSC FWS: MNBMC (Full species) BLM: Sensitive
+ <i>Micrathene whitneyi</i> (nesting) Elf owl	G5S1	SE			Audubon: Cal WL PIF: Watch list
+ <i>Strix nebulosa</i> (nesting) Great gray owl	G5S1	SE			FS: Sensitive CDF: Sensitive
+ <i>Strix occidentalis caurina</i> Northern spotted owl	G3T2T3S2S3		FT	LRnt (Full species)	CDF: Sensitive FWS: MNBMC (Full species)
<i>Strix occidentalis occidentalis</i> California spotted owl	G3T3S3		(FSC)	LRnt (Full species)	DFG: CSC FS: Sensitive FWS: MNBMC (Full species) BLM: Sensitive
APODIDAE (swifts)					
<i>Chaetura vauxi</i> (nesting) Vaux's swift	G?S3				DFG: CSC FWS: MNBMC Audubon: Cal WL

	<u>CNDDB RANKS</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Cypseloides niger</i> (nesting) Black swift	G4S2				DFG: CSC FWS: MNBMC PIF: Watch list Audubon: Cal WL
TROCHILIDAE (hummingbirds)					
<i>Selasphorus rufus</i> (nesting) MNBMC	G5S1S2				FWS:
Rufous hummingbird					PIF: Watch list Audubon: Cal WL
PICIDAE (woodpeckers)					
+ <i>Colaptes chrysoides</i> Gilded flicker	G4?S1	SE			PIF: Watch list Audubon: Cal WL
+ <i>Melanerpes uropygialis</i> MNBMC	G5S1S2		SE		FWS:
Gila woodpecker					
TYRANNIDAE (tyrant flycatchers)					
<i>Contopus borealis</i> (nesting) Olive-sided flycatcher	G?S4				Audubon: Cal WL FWS: MNBMC
+ <i>Empidonax traillii</i> (nesting) Willow flycatcher	G5S1S2	SE			FS: Sensitive
<i>Empidonax traillii brewsteri</i> (nesting) Little willow flycatcher	G5T1T2S1S2		(FSC)		
+ <i>Empidonax traillii extimus</i> (nesting) Southwestern willow flycatcher	G5T1S1		FE		
+ <i>Myiarchus tyrannulus</i> (nesting) Brown-crested flycatcher	G5S2S3				DFG: CSC
+ <i>Pyrocephalus rubinus</i> (nesting) Vermilion flycatcher	G5S2S3				DFG: CSC
LANIIDAE (shrikes)					
<i>Lanius ludovicianus</i> Loggerhead shrike	G4S4		(FSC)		DFG: CSC Audubon: Cal WL FWS: MNBMC
+ <i>Lanius ludovicianus mearnsi</i> San Clemente loggerhead shrike	G4T1S1		FE		
<i>Lanius ludovicianus anthonyi</i> Island loggerhead shrike	G4T1?S1?				DFG: CSC
VIREONIDAE (vireos)					
+ <i>Vireo bellii arizonae</i> (nesting) Arizona Bell's vireo	G5T1S1	SE			PIF: Watch list (Full species)

	<u>CNDDB RANKS</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Vireo bellii pusillus</i> (nesting) Least Bell's vireo	G5T2S2	SE	FE		FWS: MNBMC (Full species) PIF: Watch list (Full species) FWS: MNBMC (Full species)
+ <i>Vireo vicinior</i> (nesting) Gray vireo	G5S2				DFG: CSC PIF: Watch list Audubon: Cal WL BLM: Sensitive
CORVIDAE (jays, crows, and magpies)					
<i>Aphelocoma californica cana</i> Eagle Mountain scrub jay	G5T1T2S1S2		(FSC)		DFG: CSC
<i>Aphelocoma insularis</i> Santa Cruz Island scrub jay	G1S1				PIF: Watch list
ALAUDIDAE (larks)					
+ <i>Eremophila alpestris actia</i> California horned lark	G4G5T3S3				DFG: CSC
HIRUNDINIDAE (swallows)					
+ <i>Progne subis</i> (nesting) Purple martin	G5S3				DFG: CSC
+ <i>Riparia riparia</i> (nesting) Bank swallow	G5S2S3		ST		
PARIDAE (titmice and relatives)					
<i>Parus atricapillus</i> Black-capped chickadee	G5S3				DFG: CSC
TROGLODYTIIDAE (wrens)					
+ <i>Campylorhynchus brunneicapillus couesi</i> Coastal cactus wren	G5T2?S2?				DFG: CSC
SYLVIIDAE (gnatcatchers)					
+ <i>Polioptila californica</i> California gnatcatcher	G2S2		FT		DFG: CSC
+ <i>Polioptila melanura</i> Black-tailed gnatcatcher	G5S4				Audubon: Cal WL

	<u>CNDDB RANKS</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
MIMIDAE (mockingbirds and thrashers)					
+ <i>Toxostoma bendirei</i> Bendire's thrasher	G5S3				DFG: CSC PIF: Watch list FWS: MNBMC Audubon: Cal WL BLM: Sensitive
+ <i>Toxostoma crissale (=dorsale)</i> Crissale thrasher	G5S3				DFG: CSC Audubon: Cal WL
+ <i>Toxostoma lecontei</i> Le Conte's thrasher	G4S3		(FSC)		DFG: CSC PIF: Watch list Audubon: Cal WL BLM: Sensitive
<i>Toxostoma lecontei macmillanorum</i> San Joaquin Le Conte's thrasher	G4T1S1				DFG: CSC PIF: Watch list (Full species) Audubon: Cal WL (Full species)
PARULIDAE (wood-warblers)					
<i>Dendroica occidentalis</i> (nesting) Hermit warbler	G4G5S3?				PIF: Watch list Audubon: Cal WL
+ <i>Dendroica petechia brewsteri</i> (nesting) Yellow warbler	G5T2S2				DFG: CSC
+ <i>Dendroica petechia sonorana</i> (nesting) Sonoran yellow warbler	G5T1S1				DFG: CSC
+ <i>Geothlypis trichas sinuosa</i> Saltmarsh common yellowthroat	G5T2S2		(FSC)		DFG: CSC
+ <i>Icteria virens</i> (nesting) Yellow-breasted chat	G5S3				DFG: CSC FWS: MNBMC
<i>Vermivora luciae</i> (nesting) Lucy's warbler	G4S2S3				PIF: Watch list FWS: MNBMC Audubon: Cal WL
+ <i>Vermivora virginiae</i> (nesting) Virginia's warbler	G4S2S3				DFG: CSC PIF: Watch list
THRAUPIDAE (tanagers)					
+ <i>Piranga flava</i> (nesting) Hepatic tanager	G5S1				DFG: CSC
+ <i>Piranga rubra</i> (nesting) Summer tanager	G5S2				DFG: CSC
EMBERIZIDAE (sparrows, buntings, warblers, and relatives)					
+ <i>Aimophila ruficeps canescens</i> Southern California rufous-crowned sparrow	G4T2T3S2S3		(FSC)		DFG: CSC Audubon: Cal WL (Full species)

	<u>CNDDB RANKS</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
<i>Ammodramus savannarum</i> (nesting) Grasshopper sparrow	G5S2				FWS: MNBMC
<i>Amphispiza belli belli</i> (nesting) Bell's sage sparrow	G5T2?S2?		(FSC)		DFG: CSC PIF: Watch list (Full species) Audubon: Cal WL (Full species) FWS: MNBMC (Full species)
+ <i>Amphispiza belli clementae</i> San Clemente sage sparrow	G5T1S1		FT		PIF: Watch list (Full species) Audubon: Cal WL (Full species) FWS: MNBMC (Full species)
+ <i>Junco hyemalis caniceps</i> (nesting) California gray-headed junco	G5T5S1				DFG: CSC
+ <i>Melospiza melodia maxillaris</i> Suisun song sparrow	G5T2S2		(FSC)		DFG: CSC
<i>Melospiza melodia pusillula</i> Alameda (South Bay) song sparrow	G5T2?S2?		(FSC)		DFG: CSC
+ <i>Melospiza melodia samuelis</i> San Pablo (=Samuel's) song sparrow	G5T2?S2?		(FSC)		DFG: CSC
+ <i>Passerculus sandwichensis beldingi</i> Belding's savannah sparrow	G5T3S3	SE	(FSC)		
<i>Passerculus sandwichensis rostratus</i> (wintering) Large-billed savannah sparrow	G5T2?S2?		(FSC)		DFG: CSC
<i>Pipilo aberti</i> Abert's towhee	G4S2?				PIF: Watch list Audubon: Cal WL
+ <i>Pipilo crissalis eremophilus</i> Inyo California towhee	G4G5T1S1	SE	FT		Audubon: Cal WL (Full species)
<i>Pipilo maculatus clementae</i> San Clemente towhee	G5T1S1		(FSC)		DFG: CSC
<i>Spizella atrogularis</i> (nesting) Black-chinned sparrow	G5S3				PIF: Watch list Audubon: Cal WL
<i>Spizella breweri</i> (nesting) Brewer's sparrow	G5S3				PIF: Watch list FWS: MNBMC
<i>Spizella passerina</i> (nesting) Chipping sparrow	G5S3S4				
CARDINALIDAE (cardinals)					
+ <i>Cardinalis cardinalis</i> Northern cardinal	G5S1				DFG: CSC
ICTERIDAE (blackbirds)					
+ <i>Agelaius tricolor</i> (nesting colony) Tricolored blackbird	G2S2		(FSC)		DFG: CSC FWS: MNBMC Audubon: Cal WL

<u>CNDDB RANKS</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
				BLM: Sensitive
<i>Xanthocephalus xanthocephalus</i> (nesting) G4G5S3S4 Yellow-headed blackbird				
FRINGILLIDAE (finches and relatives)				
<i>Carduelis lawrencei</i> (nesting) Lawrence's goldfinch	G3S3			PIF: Watch list FWS: MNBMC Audubon: Cal WL

MAMMALS

	<u>CNDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
TALPIDAE (moles)					
<i>Scapanus latimanus parvus</i> Alameda Island mole	G5T1S1		(FSC)		DFG: CSC
+ <i>Scapanus latimanus insularis</i> Angel Island mole	G5T1S1				
SORICIDAE (shrews)					
<i>Sorex lyelli</i> Mount Lyell shrew	G3S2S3				DFG: CSC
+ <i>Sorex ornatus relictus</i> Buena Vista Lake shrew	G5T1S1	FPE			DFG: CSC
<i>Sorex ornatus salarius</i> Monterey shrew (AKA Salinas ornate shrew)	G5T1T2S1S2	(FSC)			DFG: CSC
<i>Sorex ornatus salicornicus</i> Southern California saltmarsh shrew	G5T1?S1?	(FSC)			DFG: CSC
+ <i>Sorex ornatus sinuosus</i> Suisun shrew	G5T1S1	(FSC)			DFG: CSC
+ <i>Sorex ornatus willetti</i> Santa Catalina shrew	G5T1S1	(FSC)			DFG: CSC
+ <i>Sorex vagrans halicoetes</i> Salt-marsh wandering shrew	G5T1S1	(FSC)			DFG: CSC
<i>Sorex vagrans paludivagus</i> No common name	G5T1S1				
PHYLLOSTOMIDAE (leaf-nosed bats)					
<i>Choeronycteris mexicana</i> Mexican long-tongued bat	G2S1	(FSC)	LRnt		DFG: CSC WBWG: High priority
+ <i>Macrotus californicus</i> California leaf-nosed bat	G4S2S3		(FSC)	VU/A2c	DFG: CSC FS: Sensitive BLM: Sensitive WBWG: High priority
VESPERTILIONIDAE (mouse-eared bats)					
+ <i>Antrozous pallidus</i> Pallid bat	G5S3				DFG: CSC FS: Sensitive BLM: Sensitive WBWG: High priority

	<u>CNDB RANKS</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Corynorhinus</i> (= <i>Plecotus</i>) <i>townsendii pallescens</i> Pale big-eared bat	G5T3T4S2S3		(FSC) (Full species)	VU/A2c (Full species)	DFG: CSC (Full species) FS: Sensitive (Full species) BLM: Sensitive (Full species) WBWG: High priority
+ <i>Corynorhinus</i> (= <i>Plecotus</i>) <i>townsendii townsendii</i> Townsend's western big-eared bat	G5T3T4S2S3		(FSC) (Full species)	VU/A2c (Full species)	DFG: CSC (Full species) FS: Sensitive (Full species) BLM: Sensitive (Full species) WBWG: High priority
+ <i>Euderma maculatum</i> Spotted bat	G4S2S3			(FSC)	DFG: CSC BLM: Sensitive WBWG: High priority
+ <i>Myotis ciliolabrum</i> Small-footed myotis	G5S?		(FSC)		BLM: Sensitive
+ <i>Myotis evotis</i> Long-eared myotis	G5S4?		(FSC)		BLM: Sensitive
<i>Myotis occultus</i> (= <i>Myotis lucifugus occultus</i>) Occult little brown bat (AKA Arizona myotis)	G5T3T4S2S3		(FSC)		DFG: CSC
+ <i>Myotis thysanodes</i> Fringed myotis	G5S4		(FSC)		BLM: Sensitive WBWG: High priority
+ <i>Myotis velifer</i> Cave myotis	G5S1		(FSC)		DFG: CSC BLM: Sensitive
+ <i>Myotis volans</i> Long-legged myotis	G5S4?		(FSC)		WBWG: High priority
+ <i>Myotis yumanensis</i> Yuma myotis (AKA San Joaquin myotis)	G5S4?		(FSC)		DFG: CSC BLM: Sensitive

MOLOSSIDAE (free-tailed bats)

+ <i>Eumops perotis</i> Western mastiff bat	G5S3?		(FSC) (Ssp <i>californicus</i>)	DFG: CSC BLM: Sensitive WBWG: High priority
+ <i>Nyctinomops</i> (= <i>Tadarida</i>) <i>femorosaccus</i> Pocketed free-tailed bat	G4S2S3			DFG: CSC
<i>Nyctinomops</i> (= <i>Tadarida</i>) <i>macrotis</i> Big free-tailed bat	G5S2			DFG: CSC

OCHOTONIDAE (pikas)

<i>Ochotona princeps sheltoni</i> White Mountains pika	G5?T1T2S1S2		VU/D1
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LEPORIDAE (rabbits and hares)

<i>Brachylagus idahoensis</i>	G5S3	(FSC)	LRnt	DFG: CSC
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	<u>CNDB RANKS</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
Pygmy rabbit <i>Lepus americanus klamathensis</i>	G5T2T3S2?				DFG: CSC
Oregon snowshoe hare <i>Lepus americanus tahoensis</i>	G5T2T3S2?		(FSC)		DFG: CSC
Sierra Nevada snowshoe hare + <i>Lepus californicus bennettii</i>	G5T3?S3?		(FSC)		DFG: CSC
San Diego black-tailed jackrabbit <i>Lepus townsendii</i>	G5S3?				DFG: CSC
White-tailed hare + <i>Sylvilagus bachmani riparius</i>	G5T1S1	SE	FE		
Riparian brush rabbit					
APLODONTIDAE (mountain beavers)					
+ <i>Aplodontia rufa californica</i>	G5T3?S3?		(FSC)		DFG: CSC
Sierra Nevada mountain beaver					
+ <i>Aplodontia rufa nigra</i>	G5T1S1		FE	VU/B1+2de	DFG: CSC
Point Arena mountain beaver					
+ <i>Aplodontia rufa phaea</i>	G5T2S2		(FSC)	VU/B1+2e	DFG: CSC
Point Reyes mountain beaver					
SCIURIDAE (squirrels and relatives)					
+ <i>Ammospermophilus nelsoni</i>	G2S2	ST	(FSC)	EN/A1a, B1+2c	
San Joaquin antelope squirrel					
<i>Glaucomys sabrinus californicus</i>	G5T3?S3?		(FSC)	DD	DFG: CSC
San Bernardino flying squirrel					FS: Sensitive
<i>Spermophilus lateralis bernardinus</i>	G5T1S1				
San Bernardino ground squirrel					
+ <i>Spermophilus mohavensis</i>	G2?S2?	ST	(FSC)	VU/B1+3d	
Mohave ground squirrel					
+ <i>Spermophilus tereticaudus chlorus</i>	G5T1T2S1S2		FC	DD	DFG: CSC
Palm Springs round-tailed ground squirrel					
+ <i>Tamias panamintinus acrus</i>	G5T1T2S1S2				
Kingston Mountain chipmunk					
<i>Tamias speciosus callipeplas</i>	G5T1T2S1S2				FS: Sensitive
Mount Pinos chipmunk					
<i>Tamias speciosus speciosus</i>	G5T3?S3?		(FSC)		
Lodgepole chipmunk					
GEOMYIDAE (pocket gophers)					
<i>Thomomys umbrinus (=bottae) amargosae</i>	G5T1?S1?			LRnt	
Amargosa pocket gopher				(Full species)	
<i>Thomomys umbrinus (=bottae) operarius</i>	G5T1?S1?			LRnt	
Owens Lake pocket gopher				(Full species)	
HETEROMYIDAE (kangaroo rats, pocket mice, and kangaroo mice)					
<i>Chaetodipus (=Perognathus) californicus femoralis</i>	G4T2T3S2?		(FSC)	DD	DFG: CSC

	<u>CNDB RANKS</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
Dulzura (California) pocket mouse					
+ <i>Chaetodipus</i> (= <i>Perognathus</i>) <i>fallax fallax</i> Northwestern San Diego pocket mouse	G4T3?S2S3		(FSC)	DD	DFG: CSC (Full species)
<i>Chaetodipus</i> (= <i>Perognathus</i>) <i>fallax pallidus</i> Pallid San Diego pocket mouse	G4T3?S3?		(FSC)	DD	DFG: CSC (Full species)
+ <i>Dipodomys californicus eximus</i> Marysville California kangaroo rat	G5T1S1		(FSC)		DFG: CSC BLM: Sensitive
+ <i>Dipodomys elephantinus</i> Big-eared kangaroo rat	G2G3S2				DFG: CSC
+ <i>Dipodomys heermanni berkeleyensis</i> Berkeley kangaroo rat	G5THSH		(FSC)	VU/B1+2c	
+ <i>Dipodomys heermanni dixoni</i> Merced kangaroo rat	G5T1?S1?		(FSC)		
+ <i>Dipodomys heermanni morroensis</i> Morro Bay kangaroo rat	G5T1S1	SE	FE	CR/B1+2c, D1	DFG: Fully protected
+ <i>Dipodomys ingens</i> Giant kangaroo rat	G3S3	SE	FE	CR/A1a	
<i>Dipodomys merriami collinsi</i> Earthquake Merriam's kangaroo rat	G5T2?S2?		(FSC)	DD	
+ <i>Dipodomys merriami parvus</i> San Bernardino Merriam's kangaroo rat	G5T1S1		FE	DD	DFG: CSC
+ <i>Dipodomys nitratoides brevinasus</i> Short-nosed kangaroo rat	G3T2?S2?		(FSC)		DFG: CSC BLM: Sensitive
+ <i>Dipodomys nitratoides exilis</i> Fresno kangaroo rat	G3T1S1	SE	FE	CR/B1+2c	
+ <i>Dipodomys nitratoides nitratoides</i> Tipton kangaroo rat	G3T1S1	SE	FE	CR/A1c	
<i>Dipodomys panamintinus argusensis</i> Argus Mountains kangaroo rat	G5T3S3				
+ <i>Dipodomys panamintinus panamintinus</i> Panamint kangaroo rat	G5T3S3				
+ <i>Dipodomys stephensi</i> Stephens' kangaroo rat	G2S2	ST	FE	LRcd	
+ <i>Perognathus alticolus alticolus</i> White-eared pocket mouse	G2THSH		(FSC)	CR/B1+2b	DFG: CSC (Full species) FS: Sensitive
+ <i>Perognathus alticolus inexpectatus</i> Tehachapi pocket mouse	G2T1T2S1S2		(FSC)		DFG: CSC (Full species) FS: Sensitive
+ <i>Perognathus inornatus inornatus</i> San Joaquin pocket mouse	G4T2T3S2S3		(FSC)		BLM: Sensitive
<i>Perognathus inornatus psammophilus</i> Salinas pocket mouse	G4QT2?S2?		(FSC)		DFG: CSC
<i>Perognathus longimembris bangsi</i> Palm Springs pocket mouse	G5T2T3S2S3		(FSC)	DD	DFG: CSC
+ <i>Perognathus longimembris brevinasus</i> Los Angeles pocket mouse	G5T1?S1?		(FSC)	VU/B1+2c	DFG: CSC FS: Sensitive
<i>Perognathus longimembris internationalis</i> Jacumba pocket mouse	G5T3?S1S2		(FSC)	DD	DFG: CSC

	<u>CNDB RANKS</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Perognathus longimembris pacificus</i> Pacific pocket mouse	G5T1S1		FE	CR/B1+2c, C1+2ab	DFG: CSC
<i>Perognathus longimembris salinensis</i> No common name	G5T1S1				
+ <i>Perognathus longimembris tularensis</i> No common name	G5T1S1				
<i>Perognathus xanthonotus</i> Yellow-eared pocket mouse	G1G2S1S2				BLM: Sensitive
CRICETIDAE (mice, rats, and voles)					
+ <i>Arborimus albipes</i> White-footed vole	G4S2S3		(FSC)	DD	DFG: CSC
+ <i>Arborimus pomo</i> Red tree vole	G4S3		(FSC)	DD	DFG: CSC
<i>Microtus californicus halophilus</i> Monterey vole	G5T1S1				
+ <i>Microtus californicus mohavensis</i> Mohave River vole		G5T1S1		(FSC) D2	VU/A1d+2d, DFG: CSC
+ <i>Microtus californicus sanpabloensis</i> San Pablo vole	G5T1T2S1S2				DFG: CSC
+ <i>Microtus californicus scirpensis</i> Amargosa vole	G5T1S1	SE	FE	VU/B1+3cd	
<i>Microtus californicus stephensi</i> Stephens' California vole	G5T1T2S1S2		(FSC)	DD	DFG: CSC
+ <i>Microtus californicus vallicola</i> Owens Valley vole	G5T1S1		(FSC)		DFG: CSC
+ <i>Neotoma albigena venusta</i> Colorado Valley woodrat	G?S2S3				
<i>Neotoma fuscipes annectens</i> San Francisco dusky-footed woodrat	G5T2T3S2S3		(FSC)	DD	DFG: CSC
+ <i>Neotoma fuscipes luciana</i> Monterey dusky-footed woodrat	G5T3?S3?		(FSC)	DD	DFG; CSC
+ <i>Neotoma fuscipes riparia</i> Riparian (=San Joaquin Valley) woodrat	G5T1S1		FPE	CR/B1+2c	DFG: CSC
+ <i>Neotoma lepida intermedia</i> San Diego desert woodrat	G5T3T4S3S4		(FSC)	DD	DFG: CSC
<i>Onychomys torridus ramona</i> Southern grasshopper mouse	G5T3T4S3S4		(FSC)	DD	DFG: CSC
+ <i>Onychomys torridus tularensis</i> Tulare grasshopper mouse	G5T1T2S1S2		(FSC)	DD	DFG: CSC BLM: Sensitive
<i>Peromyscus maniculatus anacapae</i> Anacapa Island deer mouse	G5T1S1		(FSC)		DFG: CSC
<i>Peromyscus maniculatus clementis</i> San Clemente deer mouse	G5T1S1		(FSC)		DFG: CSC
+ <i>Reithrodontomys megalotus distichlus</i> Salinus harvest mouse	G5T1S1				
+ <i>Reithrodontomys megalotus santacruzae</i> Santa Cruz harvest mouse	G5T1QS1				
+ <i>Reithrodontomys raviventris</i> Salt-marsh harvest mouse	G1G2S1S2	SE	FE	VU/A1c+2c	DFG: Fully protected

	<u>CNDB RANKS</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Sigmodon arizonae plenus</i> Colorado River cotton rat	G3?T1SH		(FSC)	EN/A1c (Full species)	DFG: CSC
+ <i>Sigmodon hispidus eremicus</i> Yuma hispid cotton rat	G5T2S2		(FSC)		DFG: CSC
ZAPOLIDAE (jumping mice)					
<i>Zapus trinotatus orarius</i> Point Reyes jumping mouse	G5T2?QS2?		(FSC)	LRcd	DFG: CSC
CANIDAE (foxes, wolves, and coyotes)					
+ <i>Urocyon littoralis</i> Island fox	G1S1	ST	(FSC)	LRcd	
+ <i>Vulpes macrotis mutica</i> San Joaquin kit fox	G4T2T3S2S3	ST	FE		
+ <i>Vulpes vulpes necator</i> Sierra Nevada red fox	G4T2T3S1	ST	(FSC)		FS: Sensitive
MUSTELIDAE (weasels and relatives)					
+ <i>Enhydra lutris nereis</i> Southern sea otter	G4T1S1		FT		DFG: Fully protected
+ <i>Gulo gulo</i> California wolverine	G4S2	ST	(FSC)	VU/A2c	DFG: Fully protected
<i>Lutra canadensis sonorae</i> Southwestern river otter	G5T3?S1?		(FSC)		FS: Sensitive DFG: CSC
+ <i>Martes americana</i> Pine marten	G5S3S4				FS: Sensitive
<i>Martes americana humboldtensis</i> Humboldt marten	G5T2T3S2S3				DFG: CSC FS: Sensitive (Full species)
+ <i>Martes pennanti pacifica</i> Pacific fisher	G3G4T3T4S2S3		(FSC)		DFG: CSC (Full species) FS: Sensitive BLM: Sensitive
<i>Spilogale gracilis (=putorius) amphiala</i> Channel Islands spotted skunk	G5T3S3		(FSC)		DFG: CSC
+ <i>Taxidea taxus</i> American badger	G5S4				
FELIDAE (cats and relatives)					
<i>Felis concolor browni</i> Yuma mountain lion	G5T2?Q?S1		(FSC)		DFG: CSC
OTARIIDAE (sea lions and fur seals)					
<i>Arctocephalus townsendi</i>	G1S1	ST	FT	VU/D2	DFG: Fully protected

	<u>CNDB RANKS</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
Guadalupe fur seal + <i>Callorhinus ursinus</i>	G4?S1			VU/A1b	
Northern fur seal + <i>Eumetopias jubatus</i> (rookery)	G3S2		FT	EN/A1b	
Northern (Steller) sea lion					
BOVIDAE (sheep and relatives)					
+ <i>Ovis canadensis californiana</i> California (=Sierra) bighorn sheep	G4T1S1	SE	FE	LRcd	FS: Sensitive DFG: Fully protected
+ <i>Ovis canadensis cremnobates</i> Peninsular bighorn sheep	G4T1S1	ST	FE	EN/C1+2a	DFG: Fully protected
+ <i>Ovis canadensis nelsoni</i> Nelson's (=Desert) bighorn sheep	G4T3S3			LRcd	BLM: Sensitive

CNDDB RANKS

CNDDB ranks are a shorthand formula that provide information on the rarity of a species or subspecies, both throughout its global range and its range within the State. We use the best information available to assign these ranks and they are regularly updated as new information becomes available.

GLOBAL RANKS: worldwide status of a *full species*: G1 to G5

G1 = extremely endangered: <6 viable occurrences (EO's) or <1,000 individuals, or <2,000 acres of occupied habitat

G2 = endangered: about 6-20 EO's, or 1,000 - 3,000 individuals, or 2,000 to 10,000 acres of occupied habitat

G3 = restricted range, rare: about 21-100 EO's, or 3,000-10,000 individuals, or 10,000-50,000 acres of occupied habitat

G4 = apparently secure: some factors exist to cause some concern such as narrow habitat or continuing threats

G5 = demonstrably secure: commonly found throughout its historic range

STATE RANKS: statewide status of a *full species or a subspecies*: S1 to S5

same general definitions as global ranks, but just for the range of the taxa within California.

T- RANKS: status of a *subspecies*: T1 to T5

A subspecies is given a T-rank. This is attached to the G-rank for the full species. The S-rank, in this case, will refer to the status of the subspecies within California. The T-rank has the same general definitions as the global ranks.

EXAMPLES:

Island Fox (*Urocyon littoralis*) - **G1S1**

G1 - *Urocyon littoralis* is extremely endangered throughout its worldwide range.

S1 - It is a California endemic, therefore its range within the state is the same as its worldwide range.

Yuma clapper rail (*Rallus longirostris yumanensis*) - **G5T3S1**

G5 - *Rallus longirostris* is common in North American coastal salt marshes and the range extends down into South America.

T3 - *R. l. yumanensis* is rare and has a restricted range within in Mexico, Arizona, and California.

S1 - This subspecies is extremely endangered within California

Santa Cruz long-toed salamander (*Ambystoma macrodactylum crocum*) - **G5T1S1**

G5 - *Ambystoma macrodactylum* is found throughout the Pacific northwest.

T1 - The subspecies *A. m. crocum* is found only in California and is extremely endangered throughout its range.

S1 - This subspecies is extremely endangered within California.

OTHER NOTATIONS:

G1G3 = proper rank is most likely within this range of ranks

G2? = proper rank is probably G2

G? = we don't have enough information to rank it

GH = all sites are historical; this species has not been seen in at least 20 years but no hard evidence of extinction.

GX = species is extinct (SX = it is extirpated from California)

GXC = the species is extinct in the wild, but it exists in cultivation.

G2Q = the species is endangered but there is a taxonomic question about the species.

FEDERAL SPECIAL CONCERN SPECIES

The U.S. Fish and Wildlife Service (USFWS) had maintained a website with information on their decision to eliminate the designation of "Category 2" candidate and the meaning behind their use of the term "Species of Concern". When the USFWS discontinued that web page the "FSC" designation was dropped from the Special Animals list. A number of our clients have requested that the FSC designation be returned to the list. The designation "Federal Special Concern" species has been reinstated, however it is now in parentheses to indicate that it is not an active term and is provided for informational purposes only.

Some of the important points from the old USFWS web page are included below.

Q: Why isn't the Service continuing to maintain a list of Category 2 candidates?

A: There are several reasons for the Service's decision to discontinue the Category 2 list. First, it simply is not practical for the Service's Endangered Species Program to attempt to keep track of all the species in the U.S. that *may* be imperiled. When the Service first started publishing comprehensive lists of candidates and potential candidates, few groups were tracking species of concern. No list comparable to the Service's list existed. Now several groups track these species, including State natural resource agencies and Natural Heritage Programs, Federal land managing agencies and the Interior Department's National Biological Service, professional societies, and conservation organizations. Given the budgetary constraints the Service is facing and ever-increasing workloads, we can no longer afford to duplicate these efforts and instead can draw from these various sources.

Second, the quality of the information supporting the Category 2 list varied considerably, ranging from extremely limited or old data to fairly comprehensive assessments. Also, although the lists identified over 4,000 Category 2 species, that was likely a considerable under-representation of the species that warrant review. These shortcomings undermined the credibility of the list.

Third, maintaining a list of Category 2 candidates *as a component of the Endangered Species program* was confusing to the public. Maintaining two classes (Category 1 and Category 2) of candidates species created the incorrect impression that there were enormous numbers of species just waiting to be added to the lists of endangered and threatened species. While the Service anticipated issuing a proposed listing only for the Category 1 species (now known simply as candidates), such was never the case for Category 2 species. As evidence, consider these facts: 1) the Service has completed formal status reviews on roughly 3,400 U.S. species and placed 960 of them on the endangered or threatened species lists; 2) for the roughly 2,400 other species –70 percent of those reviewed –The Service determined that protection under the ESA was not warranted. So the notion that a Category 2 species would ultimately wind up on the ESA list is simply false. The definition of Category 2 species emphasized that there was reason for concern about the conservation status of these taxa, but the Service lacked sufficient information to determine whether listing was warranted. The decision to discontinue the designation was made

to clarify that the term “candidate species” only applies to those species the Service expects to propose for listing based on the available scientific information.

Q: The Service has issued a variety of memoranda and other documents that state that Category 2 candidates should now be called “Species of Concern” or “Species at Risk”. Is this merely a term-of-art, or is the old Category 2 list being maintained under a different name?

A: The Service is *not* maintaining a list of Category 2 species, under that name or any other name, nor is anyone maintaining a list for the Service. The terms “Species at Risk” or Species of Concern” should be considered as terms-of-art that describe the entire realm of taxa whose conservation status may be of concern to the Service, but neither term has official status. The species in former Category 2 would generally fit this description, as would those on the Service’s list of Migratory Nongame Birds of Management Concern in the United States, the American Fisheries Society’s list of Protected Fished of the United States and Canada, State lists of protected species, and species identified as imperiled or vulnerable by the State Natural Heritage Programs and The Nature Conservancy.

APPENDIX 3

<http://www.iucn.org/themes/ssc/redlists/categor.htm>

SPECIES OF SPECIAL CONCERN REPORTS

Jennings, M. R. and M. P. Hayes. 1994. Amphibian and Reptile Species of Special Concern in California. Final Report submitted to the Department of Fish and Game Inland Fisheries Division under contract No. 8023. 255 pp.

The status of 80 amphibian and reptile taxa was reviewed. Individual accounts are presented for 48 declining taxa in need of some level of protection. This report is available for \$20.00 plus tax and shipping. Call Information Services at (916) 324-0563

Moyle, P. B., R. M. Yoshiyama, J. E. Williams, & E. D. Wikramanayake. 1995. Fish Species of Special Concern in California. Final Report submitted to the Department of Fish and Game Inland Fisheries Division under contract No. 2128IF. 272 pp.

This report is a second edition. It treats 54 taxa of native fish and gives detailed accounts for 49 taxa. This report is available for \$16.00 plus tax and shipping. Call Information Services at (916) 324-0563.

Remsen, J. V. Jr. 1978. Bird Species of Special Concern in California, An Annotated List of Declining or Vulnerable Bird Species. Wildlife Management Branch Administrative Report No. 78-1. 54 pp.

This was the first species of special concern report produced. Of the 61 taxa presented, 11 are now state and/or federally listed. This report is out of print.; a new bird species of special concern report is currently in preparation.

Williams, D. F. 1986. Mammalian Species of Special Concern in California. Wildlife Management Division Administrative Report 86-1. 112 pp.

Of the 36 taxa presented, 5 are now state and/or federally listed, and another is proposed for federal listing. This report is now out of print; a new mammalian species of special concern report is currently in preparation.

OTHER DATABASES

California Wildlife Habitat Relationships Program (CWRH): A computerized information system and predictive model for 675 of California's amphibians, reptiles, birds, and mammals. It contains information on taxonomy, legal status, geographic distribution, and habitat relationships. It can be used for activities involving wildlife species and habitat management, impact assessment, biodiversity conservation, and land use planning. Version 7.0 software comes compiled in visual dbase on CD-ROM for use in Windows 95, 98 or NT environments. This database is available for sale. More information is available on the Department's web site: <http://www.dfg.ca.gov/whdab/cwhr/whrintro.html>. The web site also contains the text of "California's Wildlife" Volumes I-III. This on-line resource contains information on life history and distribution.

Habitat Conservation Division Databases: The Bay-Delta Branch makes the results of some of their research projects available on their Web site: <http://www.delta.dfg.ca.gov/>

SPECIES	DATA TYPE
Splittail <i>Pogonichthys macrolepidotus</i>	Abundance and distribution data
Delta smelt <i>Hypomesus transpacificus</i>	2000 Survey results